Wildcat! 4

wcPRO Sysop Guide

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wcPRO

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Until we receive your registration information, our staff cannot provide you with technical support via our BBS or by phone.

Benefits of sending your registration

- Free technical support by phone Monday through Friday between 9 a.m. and 5 p.m. Pacific time
- Automatic notification of major program updates
- Additional program updates at a reduced rate
- 24-hour access to the private multi-line Registered User's HQ BBS at Mustang Software
- BBS access to download utility programs written by MSI staff and other authors which enhance and add features

Technical Support Services

wcPRO is designed to be easy to use, and this manual should contain the answers to most of your questions. Read it first. Make use of the F1 help key for tips and explanations. If you're still stumped, technical support is only a phone call away.

MSI HQ BBS

You may first want to call our private *Wildcat!* BBS for Registered Users at 805-873-2400, and leave a quick question for our technical staff. This is a particularly useful way to receive expert guidance with the more advanced features.

Note: You will not have full access on your first call since we need you to fill out the user database information such as your password, etc. The Sys-

tem Operator (Sysop) will raise your security access as soon as possible, usually within 24-48 hours, if your registration information is on file.

On-line services

CompuServe

Another alternative is CompuServe where we are a part of the PC Vendor Support Forum. You reach us by typing GO PCVENA and then selecting SubTopic 9.

GEnie

You can also find us on GEnie, the on-line service from General Electric. Go to the MUSTANG RoundTable with the command MOVE 680.

America Online

MSI's support section on America Online is called MUSTANG and can be reached with the keyword MUSTANG.

Internet

For technical support via Internet, write to support@mustang.com.

Voice support

If you are still unable to find the answer to a question—or if you need a quick explanation, please call us Monday to Friday between 9 a.m. and 5 p.m. Pacific time at 805-873-2550.

When calling for support please:

- Have your registration number handy (it is printed inside the front cover of your *Wildcat!* manual).
- Record your Registration number here:

  _____

- Be at your computer with your manual handy.

- Be ready to describe the problem in detail.
- If possible, be ready to duplicate the problem on your system.
- You can call technical support directly at (805) 873-2550.

Support is not available by mail or Fax.

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We also have a large number of BBS systems carrying the MSI SupportNET echo conferences throughout the US and Canada, and around the world. These BBSs can be found in the United Kingdom, Holland, Australia, France, and Norway. The MSI SupportNET contact points outside the U.S. are:

Location	Distributor	BBS Phone
Australia	Banksia Info. Tech.	+61 2-418-7693
France	Maxotex	+33 1-45-34-6430
Scandinavia	PC Security	+47 2-58-3358
United Kingdom	Telesystems	+44 49-489-1903

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Software Updates

wcPRO is constantly undergoing enhancements and revisions. This is normal software maintenance. We encourage you to keep your software updated—we can provide the best support to users who are running the current major release. The cost is minimal and the benefits are great.

About the manual

This manual describes *wcPRO* operation and features at the time of publication, and does not reflect changes made to the program after the manual was completed. Be sure to check the README file on your *wcPRO* installation disks. This file contains important information about last-minute changes in the program, additional features, and errors or omissions in the manual.

Typographic Conventions

The following type styles are used throughout this manual to represent keys you press and information you type. Note the difference in appearance between a Zero "0" and the uppercase Oh "O".

[ENTER]	This represents a key you should press
[ALT] [Z]	This is a combination key. Hold down the [ALT] key, then press the indicated key.
CD \WILDCAT	This indicates a DOS command for you to type exactly as shown. Remember to press your [ENTER] key after each line.
Click	This means a single press of the left mouse button.
Double Click	This means two rapid clicks of the left mouse button.

1 - Introduction

A book that furnishes no quotations is, me judice, no book
— it is a plaything

Thomas Love Peacock-

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What is *wcPRO*?

Simply stated, *wcPRO* is a set of database management and information tools for *Wildcat!* sysops, which expands on the functions available from *Wildcat!*'s Sysop menu. Your File, Message, and User databases can be managed, along with the output from your Questionnaire files, and system statistics from your Activity Logs. The utility package also includes *wcFAX*, a fax-on-demand utility for your *Wildcat!* BBS.

The program features a simple to use mouse-aware "point and shoot" menu interface for interactive use, plus command-driven batch mode operation for use in system maintenance events.

The main program WCPRO.EXE is divided into 8 major functions. The main menu is organized into sections for User maintenance, File maintenance, Message maintenance, Questionnaire processing, Statistical analysis, and Command Files for batch operation. A final section allows you to configure external file viewers and editors, and specify the location of your *wcPRO* command and configuration files.

An additional set of programs called *wcFAX* offers fax on demand services for your BBS. Your callers can select documents from a list you set up, and have those documents faxed back to them after their call.

Installation

wcPRO comes with an installation program that automatically creates the necessary directories, and copies the program and support files you select to the correct location. You cannot install *wcPRO* simply by copying the files from the installation diskettes to your hard drive since the files are stored in compressed format.

You can use the installation program for an initial installation, or to re-install your *wcPRO* software. Before you begin installing *wcPRO*, we strongly recommend that you make a backup copy of the installation diskettes and keep them in a safe place. Review your DOS manual for help if you are unsure how to make backup copies of your diskettes.

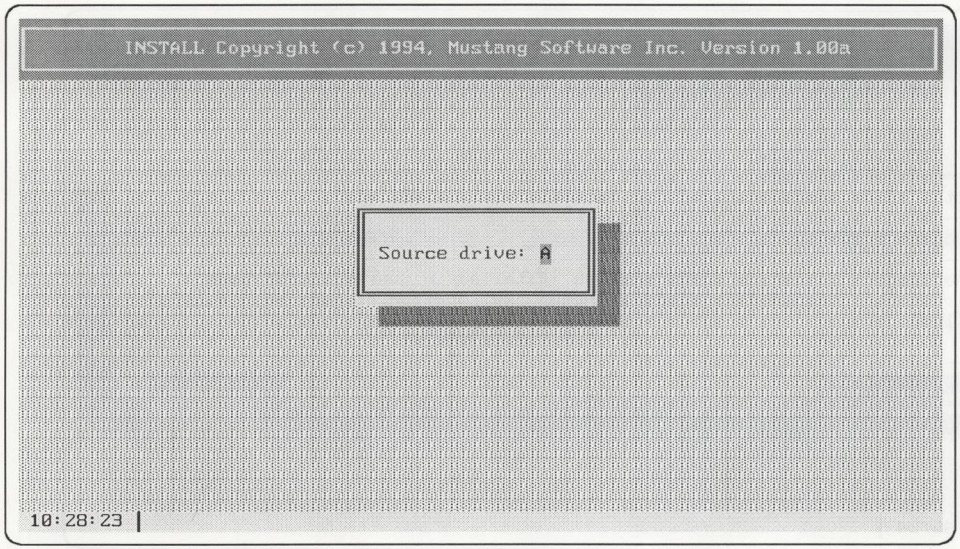
To install *wcPRO*, place the disk labeled "INSTALL" in your floppy drive and type

`A:` ENTER

If you are installing from a different drive, enter the proper drive letter. Then type

`PROINST` ENTER

Your screen should now look something like this:



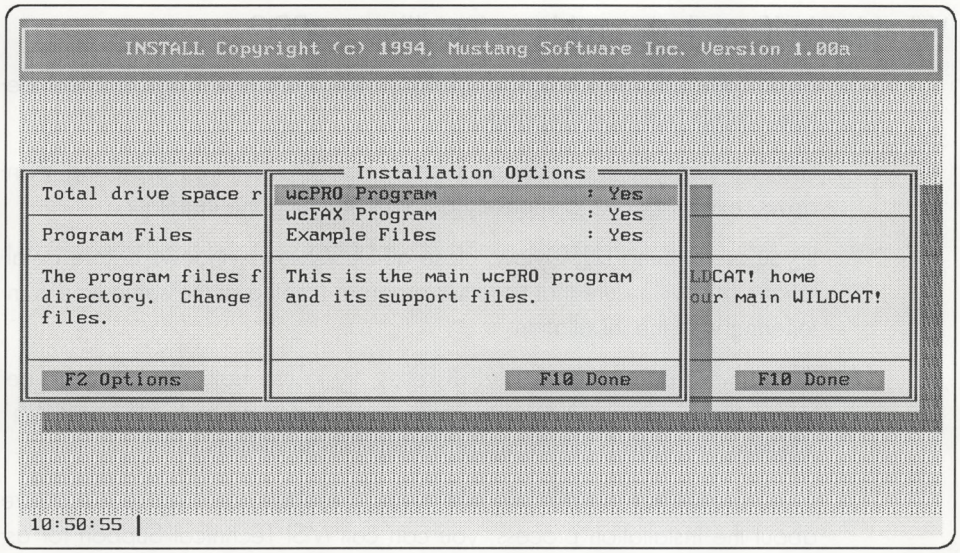
Source Drive is the drive letter from which you will be installing *wcPRO*. If you are installing from diskettes in floppy drive A:, enter A in this box. If you are installing from drive B:, enter B, and so on. Press ENTER to continue.

The next screen will show you the amount of drive space required for the installation, and allows you to select which files you want to install at this time. A help window provides additional information about the files you are selecting.

```
INSTALL Copyright (c) 1994, Mustang Software Inc. Version 1.00a

                    wcPRO Sysop Utilities
Total drive space required for install     :   1,832,619

Program Files                              : C:\WILDCAT\

The program files for wcPRO must be installed in your WILDCAT! home
directory.  Change this field to match the location of your main WILDCAT!
files.

 F2 Options                                          F10 Done

11:45:24
```

The correct place to install all *wcPRO* Program files is your *Wildcat!* home directory. The default directory is C:\WILDCAT\. If you have installed *Wildcat!* on a different drive or subdirectory, enter the correct information here.

The default installation installs *all* program and support files, and this is the recommended procedure for a first-time installation. Press F2 to see installation options for each set of files. As with the previous window, the Installation Options screen explains each option. Use your ↑ and ↓ keys to move the selection bar up and down the list, and press ENTER to change each option. Notice how the help information changes as you move the selection bar.



When you have finished selecting installation options, press F10 to return to the main installation screen. Press F10 again to begin the installation.

The installation process will copy the program files to your *Wildcat!* home directory, and will create any required subdirectories for configuration and support files. The paths created are the proper location for configuration and support files, and shouldn't be altered.

The installation program may ask you to insert additional diskettes to complete the installation process. Each original diskette is clearly labelled. The installation program will display additional screens of tips and information while the *wcPRO* files are being copied to your hard drive.

In some cases, changes may have been made to the program after the manuals were printed. The final screen displayed by the installation program shows you important information on last-minute changes to the program or documentation. You have the option to print this file right now. We recommend you do so, and keep the printed copy with your *wcPRO* User Guide for future reference.

What to do if you have problems installing *wcPRO*

If you have problems installing *wcPRO*, here are a few things to check before calling Technical Support.

First, be sure you are installing *wcPRO* from DOS. If you are using Windows, exit Windows completely before beginning the installation.

If you are running DESQview, close all DESQview windows before installation. This will insure that no other program running at the same time is interfering with the installation.

If you think you may have bad diskettes, try to use both sets of media before calling Technical Support. *wcPRO* is provided on both 5¼" and 3½" diskettes. It is rare for both sets of diskettes to be defective.

If you are still having difficulty after trying these tips, or if you're just unsure about the installation process, you can call MSI Technical Support for assistance.

Starting *wcPRO*

Change to the *Wildcat!* home directory and start the program by typing

WCPRO [ENTER]

The Main menu screen displays eight options: **Users, Files, Messages, Questionnaires, Statistics, Command files, Setup Options** and **Exit.**

Move the highlight bar over the item desired and press [ENTER] or press the desired highlighted key to make a selection.

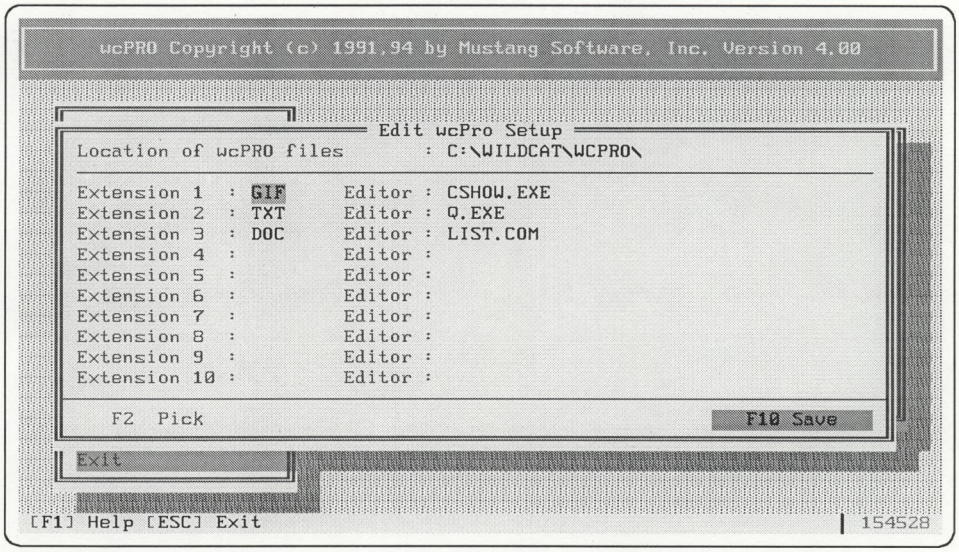
The right side of the screen displays a window with Database statistics for Files, Users and Messages. This screen is for information only.

Each menu choice is reviewed in detail in the chapters that follow.

Configuration

Only two configuration options are needed for *wcPRO*. The first assigns a default path for your *wcPRO* match filters and command files, and the second allows you to assign external programs *wcPRO* will launch automatically when you view files in your file database.

You can set the configuration options from the main menu item **Setup Options**.



Path for *wcPRO* files

Default: C:\WILDCAT\

This is the path where *wcPRO* will look for any match filters and command files you save. You can specify a different path here by popping up a directory selection list with the F2 key.

External utilities

wcPRO will let you view or edit files in the file database by associating up to 10 different file extensions with your choice of viewing or editing utilities. For instance, you can associate picture files with the extension .GIF with a shareware GIF viewing utility called CompuShow (CSHOW.EXE). You can also associate text files with a text editor, and *Wildcat!* display files with *wcDRAW*.

To add an item, enter the file extension (for instance .GIF) in the first field, and the name and path of the program to execute in the second field. Note that *wcPRO* automatically detects and executes most popular packer utilities such as PKZIP, providing the necessary utilities are in your DOS path or your WILDCAT home directory.

Any external utilities you add to this list must also be in your DOS path statement, or in your WILDCAT home directory.

wcPRO user interface

wcPRO follows the same data entry conventions as most other *Wildcat!* programs and utilities. You can use the following editing keys and mouse commands in *wcPRO*:

Keyboard Control

Key	Operation
F1	Display **Help** screen
F2	List fields in **selection list** items
F10	**Accept** the screen entry (save selections)
SPACE	**Toggle** field choices if multiple choice
←	Move left one space in current field
→	Move right one space in current field
↑	Move to previous field
↓	Move to next field
ENTER	Move to next field
⇥ (tab)/ SHIFT ⇥	Move forward/back one field
HOME	Position cursor on first character of current field, or the top of a list
END	Position cursor at the end of current field, or the bottom of a list
INS	Toggle insert/overtype mode. The cursor size indicates the status of the toggle.
←	Delete character to left of cursor
DEL	Delete character immediately under cursor. The Backspace and Delete keys work the same regardless of the status of the Insert key

Some screens use ALT keys for specific applications. Watch the status line at the bottom of the screen for additional options.

Mouse Control

You can use a mouse to select many options in *wcPRO*. All fields are mouse sensitive, as are all selection list items. You can turn selection list items (marked with a dot) on and off by clicking on the desired item with the left mouse button. The right mouse button is equivalent to the ESC key on the keyboard. Clicking both mouse buttons brings up the help screens.

Entering data

Most of *wcPRO*'s work is done by finding and operating on database records which match the search pattern you specify in the data entry screens. There are three main types of data entry fields.

Text entry fields

The first type is a simple fill-in-the-blanks text entry field. You can move around from field to field using the cursor keys or mouse, and enter the information requested by typing it from the keyboard. The following illustration from the Edit File Match screen is an example of a text entry screen.

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00
                          Edit File Match
File name        : WC40*.*
Size from        : 0                 To        : 2147483647
Date from        : 01/01/00          To        :
Accessed from    : 01/01/00          To        :
Days old         : 0                 Condition: Greater than or equal to
Days since DL    : 0                 Condition: Greater than or equal to
Password         :                   Required : N
Uploader         :
Description      :
Downloads from   : 0                 To: 65535  Exists on disk     : Both
Cost from        : 0                 To: 65535  Wrong date or size: Both
Never overwrite  : Both                         Upload in progress: Both
Never delete     : Both                         On CD             : Both
Free download    : Both                         Offline           : Both
Failed scan      : Both
Keyword          :
Stored path      :
Long description :
 F2 Pick   F9 Areas   AltC Clear   AltL Load   AltS Save   F10 Ok
[F1] Help [ESC] Exit                                        | 143632
```

Pop-up Windows

The following illustration from the Edit File Match screen is an example of a Pop-up Window associated with a data entry field.

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00
                          File Areas
File name        (•)    1 - Utilities
Size from        (•)    2 - Games and entertainment
Date from        (•)    3 - Cad related files
Accessed from    (•)    4 - Text editor utilities
Days old         (•)    5 - Text files                  r equal to
Days since DL    (•)    6 - All system uploads          r equal to
Password
Uploader          Select All    Clear  All    F10 Done
Description
Downloads from   : 0                 To: 65535  Exists on disk     : Both
Cost from        : 0                 To: 65535  Wrong date or size: Both
Never overwrite  : Both                         Upload in progress: Both
Never delete     : Both                         On CD             : Both
Free download    : Both                         Offline           : Both
Failed scan      : Both
Keyword          :
Stored path      :
Long description :

  F2 Pick    F9 Areas    AltC Clear    AltL Load    AltS Save    F10 Ok
[F1] Help [ESC] Exit                                              | 141368
```

A pop-up window lets you select one or more entries to include in your search. The arrow keys move the highlight bar from item to item and the [SPACE] is used to toggle the selection dot on or off. The mouse may also be used to scroll the list and to toggle the selection dot by double-clicking on the desired item.

You can mark a range of items by using [F7] to mark the beginning and [F8] to mark the end. WordStar mark commands are also supported. Once a range has been marked, use [SPACE] to toggle all marked items.

To select all items in a list, press [ALT] [S]. To clear all items, press [ALT] [C].

Selection Lists

The third type of data entry field allows you to select a single entry from a multiple choice selection list. Press the SPACE to toggle through the choices, or press F2 to pop up a selection list. To select an entry from a selection list, move the mouse or highlight bar to the entry desired, then click the mouse button or press ENTER.

The following illustration shows a Selection List which appears on the Edit File Match screen when you press F2 on the entry "Never Overwrite."

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00
                          Edit File Match
File name          : WC40*.*
Size from          : 0                 To        : 2147483647
Date from          : 01/01/00          To        :
Accessed from      : 01/01/00          To        :
Days old           : 0                 Condition: Greater than or equal to
Days since DL      : 0                 Condition: Greater than or equal to
Password           :                   Required : N
Uploader           :
Description        :
Downloads from     : 0                 To: 65535  Exists on disk     : Both
Cost from          : 0   Yes           To: 65535  Wrong date or size: Both
Never overwrite    : Bot No                       Upload in progress: Both
Never delete       : Bot Both                     On CD             : Both
Free download      : Bot                          Offline           : Both
Failed scan        : Both
Keyword            :
Stored path        :
Long description   :

 F2 Pick   F9 Areas   AltC Clear   AltL Load   AltS Save   F10 Ok
[F1] Help [ENTER] Select [ESC] Exit                          | 143256
```

Operational considerations

Since *wcPRO* must interact with the *Wildcat!* databases in an intimate manner, it must be run properly.

wcPRO determines whether your system is capable of multiline operation by checking your *MAKEWILD* network type and your node information file. You should **never** run *wcPRO* at the same time as *Wildcat!* with the network type set to "No Network" in *MAKEWILD*. Refer to Chapter 7 of your *Wildcat!* Sysop Guide for information on Node 0, and on setting up your single line or multi-line system for network operation.

wcPRO should always be started from the *Wildcat!* home directory and should be run with a **unique Node ID number**. In a LAN setting it may be run from any PC on the network as long as a unique Node ID number has been set using the WCNODEID environment variable. Under DESQview it may be run from any active window provided a unique WCNODEID variable has been set. Review Chapter 7 in your *Wildcat!* Sysop Guide for more information on network operation and multi-line setup.

Although almost all *wcPRO* options can be executed with other *Wildcat!* nodes in operation, some procedures should be avoided unless all nodes are down. Any operations that perform heavy database alteration, either interactively or automated, should be run alone to avoid slowdown of other nodes.

Although *wcPRO* can be run from more than one node at a time for activities such as browsing, other activities such as automated changes to databases should not be performed running two copies at the same time. You may perform manual changes using multiple copies since database record locking is supported.

Finally, you may not process statistics or questionnaires on multiple nodes at the same time, and message conference moving can only be performed with all nodes down.

CAUTION

Many of the features in *wcPRO* are capable of making swift, extensive changes to your *Wildcat!* database files. Make note that the default selections affect ***all*** messages, files and users! We strongly suggest that you make a backup of all data files prior to using these utilities.

2 - Databases

If you build it, they will come.

Field of Dreams

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Browsing

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00
                          User Database
Name                    Id      From                        Calls

KEVIN APPLESAUCE        7       Jumping Pound, Alberta      12
GWEN BARNES             1       Mustang Software, Inc.      414
BILL BEHRING            5       Los Angeles, CA             15
MATTHEW BUTTERDISH      8       Happy Adventure, Nfld.      2
ROBERT CARPHONE         9       Goshen, CA                  18
CHRIS DAILYNEWS         10      Encino, CA                  76
HARVEY DAVIDSON         3       Sturgis, SD                 110
CHESTER DRAWERS         23      Point No Point, BC          10
STAN EMERITUS           11      Berkeley, CA                42
JACK FRANKENFURTER      12      Denton, USA                 1
MATT FRANKENFURTER      13      Denton, USA                 14
MATTHEW GRAVELPIT       14      Alice Springs, Australia    54
LEO HASTYNOTE           15      Visalia, CA                 6
IRA IMPERVIOUS          16      Humptulips, WA              188
A.J. JAMTART            6       Oildale, CA                 2
BILL JIFFY              17      Tehachapi, CA               196
MICHAEL KAPSICUM        18      Lamont, CA                  1

F9 Hot keys                                     ESC Exit

[F1] Help [ESC] Exit                                  | 148064
```

The **Browse** screen displays all records in the current database (Users, Files or Messages), one record per line. The currently selected record is indicated by a highlight bar, in a contrasting color.

Use the cursor keys or PG UP and PG DN to move the highlight bar up and down the Browse screen. To move quickly to the top and bottom of the list press CTRL PG UP or CTRL PG DN. To find a specific record, use the ALT F **Find** command.

Hot Keys

Each database browse window has a list of hot keys you can use to add, edit, find and view records. Press F9 to pop up a list of hot keys for the current database browse window. Note that you do not need to pop up the hot key list to use these functions.

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00
                    User Database
Name                    Id   From                        Calls

KEVIN APPLESAUCE        7    Jumping Pound, Alberta      12
GWEN BARNES             1    Mustang Software, Inc.      414
BILL BEHRING            5    Los Angeles, CA             15
MATTHEW BUTTERDISH      8    Happy Adventure, Nfld.      2
ROBERT CARPHONE         9    Goshen, CA                  18
CHRIS DAILYNEWS         10   Encino, CA                  76
   Hot Keys             3    Sturgis, SD                 110
 Find        Alt-F      23   Point No Point, BC          10
 Match       Alt-M      11   Berkeley, CA                42
 Delete      Alt-D      12   Denton, USA                 1
 Add         Alt-A      13   Denton, USA                 14
 Write       Alt-W      14   Alice Springs, Australia    54
 Sort Key    Alt-S      15   Visalia, CA                 6
 Tag         Space      16   Humptulips, WA              188
 Edit        Enter      6    Oildale, CA                 2
                        17   Tehachapi, CA               196
MICHAEL KAPSICUM        18   Lamont, CA                  1

F9  Hot keys                                   ESC Exit

[F1] Help [ESC] Exit                                147664
```

The following table shows the hot keys available on all browse windows. "M" indicates Message, "F" is for Files, and "U" is for Users. "All" means the hot key works from all browse windows.

Key	Operation	Where	Notes
ALT A	Add	All	Add a new record to the current database.
ALT C	Conference	M	Loads a different conference in the Message browse window.
ALT D	Delete	All	Deletes the current record. A confirmation window pops up before the command is executed.
ALT D	Description	F	Allows you to edit the long description for a file database record.
ALT F	Find	All	Locate a record in the current browse window.

Key	Operation	Where	Notes
ALT K	Copy	F, M	Copies a file or message to another area.
ALT M	Match	All	Pops up the match filter screen for pattern-matching searches.
ALT R	Reply	M	Reply to the message currently on screen.
ALT S	Sort	All	Change the sort order for the browse window.
ALT U	User	F, M	Looks up user associated with current message or file database record.
ALT O	Move	M	Moves the current message to another conference.
ALT V	View	F	Views the contents of the current file. Use the Setup Options to define file viewers and editors.
ALT W	Write	U	Allows you to write a message to the user whose record is currently on screen.
ALT X	Xfer	F	Moves the current file to another file area, updates the date and time in the database record to current date and time.
CTRL ←	Prev Conf	M	Go to the conference with the next lowest conference number.
CTRL →	Next Conf	M	Go to the conference with the next highest conference number.
SPACE	Tag	All	Mark the current record for further processing.
ENTER	Edit	All	Edit the current database record.

Sorting

You can change the default sort order of records on the browse screen with the [ALT] [S] Sort key. The following table shows the sort options for each database

Users	Messages	Files
Name & ID	Highest to lowest message number	Area
Security	Lowest to highest message number	Name
Expire		Date
Alias		Uploader
UserID		
Name		

Editing a record

To view or edit an individual database record, use your cursor keys or mouse to highlight the record, and press [ENTER] or double-click the left mouse button. A data entry screen showing the complete database record will then pop up, allowing you to make changes to any field in that record. Save your changes by pressing the [F10] key.

Adding a record

[ALT] [A] **Adds** a new user name to the user database by presenting a blank user database record. The user information is entered by selecting a data entry field with the cursor keys or mouse, then entering the appropriate data. There are several types of data entry fields, described in detail in Chapter 1 of this manual. The input method for each of these fields varies according to the field type.

Tagging records

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00
                        User Database
 Name                    Id        From                        Calls

√ KEVIN APPLESAUCE       7         Jumping Pound, Alberta      12
  GWEN BARNES            1         Mustang Software, Inc.      414
  BILL BEHRING           5         Los Angeles, CA             15
√ MATTHEW BUTTERDISH     8         Happy Adventure, Nfld.      2
√ ROBERT CARPHONE        9         Goshen, CA                  18
  CHRIS DAILYNEWS        10        Encino, CA                  76
  HARVEY DAVIDSON        3         Sturgis, SD                 110
  CHESTER DRAWERS        23        Point No Point, BC          10
√ STAN EMERITUS          11        Berkeley, CA                42
  JACK FRANKENFURTER     12        Denton, USA                 1
  MATT FRANKENFURTER     13        Denton, USA                 14
  MATTHEW GRAVELPIT      14        Alice Springs, Australia    54
  LEO HASTYNOTE          15        Visalia, CA                 6
  IRA IMPERVIOUS         16        Humptulips, WA              188
  A.J. JAMTART           6         Oildale, CA                 2
  BILL JIFFY             17        Tehachapi, CA               196
  MICHAEL KAPSICUM       18        Lamont, CA                  1

 F9  Hot keys                                   ESC Exit

[F1] Help [ESC] Exit                                  | 147904
```

Use the [SPACE] to tag individual records on the screen for quick processing. You can move, copy or delete tagged records. *wcPRO* will prompt for confirmation before deleting records from the database.

Deleting a record

[ALT] [D] Deletes the highlighted record from the user database. A window will pop up asking you for confirmation before deleting the record. Once deleted, records in the User and File databases *cannot* be recovered! Deleted messages are purged with *wcPACK*.

Relational links to other databases

Each database has relational links to other databases, allowing you to look up information quickly without having to navigate menus. For instance, when you are viewing a file record, you can press [ALT] [U] to go

instantly to the user record of the uploader, and then [ALT] [W] to write a message to the user thanking him for the upload.

You can also look up the user records for the sender and addressee of a message. Highlight the userID field in the message header for the user you want to look up, then press [ALT] [U].

The message editor

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00
                    Edit/View Message
Number: 177   Network: HOLONET  Private: Y Deleted: N Received: N Receipt: N
Reply-to: 0        Written: 05/09/94   12:34am     Read:
Fm: J.R.BOB.DOBBS@ULTIMATE.SLACK.ORG                (          ) ID:0
To: STEVE CRIPPEN                                   (          ) ID:0
Subject: RE: EGS
Receiveable: Y Carboned: N Forwarded: N Echo: N Replies: N Tagged: Y Sent: N
Internal attachment:                      External attachment:
Line: 1      Column: 1      8%  Insert: On   Indent: On   Word wrap: On   SAVE
>
> adjust always works..it is BLAZING fast under 3.x on an A3000 with 256
> colors. I was amazed. I hope 3.1 becomes available..I'd like to buy it.

I don't have access to OS 3.1 in any way, shape, or form. I can try it on
an OS 3.0 A1200 ROM though (oh boy - sarcasm). It may be hard to tell if
the A1200 ROM will be causing the problem or not. I've tried it before
with minimal success. Except for a message I just got, most people tell
me to get OS 3.1 - it's just not possible, and at this point - unlikely.
:-(

 AltA Add  AltV View AltC Copy AltW Write AltU User AltR Reply  F10 Save
[F1] Help [ESC] Exit                                          | 111632
```

The message editor uses commands familiar to anyone who has used WordStar or the many editors that emulate its command set. In addition, the usual cursor movement keys are supported.

Block marking, copying and moving are fully supported, along with searching and replacing text.

You can toggle between the text of a message and the message header by pressing F3. Press F10 to save your message and return to the browse window, or ESC to abandon your changes.

The following table shows a list of all commands supported by the *wcPRO* message editor.

Keypad	Ctrl Key	Operation
←	CTRL S	Cursor left one character
→	CTRL D	Cursor right one character
CTRL ←	CTRL A	Cursor left one word
CTRL →	CTRL F	Cursor right one word
HOME	CTRL Q S	Cursor to beginning of line
END	CTRL Q D	Cursor to end of line
↑	CTRL E	Cursor up one line
↓	CTRL X	Cursor down one line
	CTRL W	Scroll display up one line
	CTRL Z	Scroll display down one line
PG UP	CTRL R	Scroll display up one page
PG DN	CTRL C	Scroll display down one page
CTRL HOME	CTRL Q E	Move cursor to top of screen
CTRL END	CTRL Q X	Move cursor to bottom of screen
CTRL PG UP	CTRL Q R	Move cursor to beginning of message
CTRL PG DN	CTRL Q C	Move cursor to end of message
	CTRL J L	Jump to line ##
DEL	CTRL G	Delete character at cursor
← (backspace)	CTRL H	Delete character to left of cursor
	CTRL Y	Delete current line
	CTRL Q Y	Delete from cursor to end of line
	CTRL T	Delete word to right of cursor
ENTER	CTRL M	Start a new line
	CTRL N	Insert a new line at cursor position
⇥	CTRL I	Move cursor to next tab stop

Keypad	Ctrl Key	Operation
	CTRL P	Insert control character.
F10	CTRL K S	Save current message
ESC	CTRL K Q	Quit without saving
F7	CTRL K B	Mark the beginning of a block
F8	CTRL K K	Mark the end of a block
	CTRL K T	Mark the current word as a block
	CTRL Q B	Jump to the beginning of the currently marked block
	CTRL Q K	Jump to the end of the currently marked block
	CTRL K H	Toggle the display of marked blocks
	CTRL K C	Copy currently marked block to cursor position
	CTRL K V	Move currently marked block to cursor position
	CTRL K Y	Delete currently marked block
	CTRL K I	Indent currently marked block 2 spaces
	CTRL K U	Unindent currently marked block 2 spaces
	CTRL O O	Toggle the case of all characters in currently marked block
	CTRL O U	Convert all characters in currently marked block to upper case
	CTRL O V	Convert all characters in currently marked block to lower case
	CTRL K R	Reads a file into the message at the current cursor position and marks it as a block
	CTRL K W	Writes the currently marked block to a file
	CTRL K P	Writes the currently marked block to LPT1

Keypad	Ctrl Key	Operation
	CTRL Q F	Search for a string of text. Search options are B (search backwards), G (search globally), L (search locally within marked block) and U (ignore case). Found text will be highlighted.
	CTRL Q A	Search and replace a string of text. Replace options are same as search options, plus N (replace without confirmation). Confirmation options are yes (make the replacement), no (don't replace), all (make this replacement and continue replacing without confirmation) and quit (stop the whole operation).
	CTRL L	Repeat the last search or replace operation.
	CTRL Q P	Jump to previous cursor position
	CTRL B	Reformat current paragraph
	CTRL K G	Reformat entire message. Use with caution!
	CTRL O C	Center current line
INS	CTRL V	Toggle insert mode on or off. A fat cursor indicates insert mode; a thin cursor indicates overtype mode.
	CTRL O I	Toggles auto-indent mode on or off. In auto-indent mode, pressing ENTER while in insert mode indents the next line the same number of spaces as the current line.
	CTRL O W	Toggles word wrap mode.
	CTRL O F	Toggles tab mode between smart tabs and fixed tabs. In smart tab mode tab stops are set at inter-word spaces in previous line.
	CTRL O T	Change fixed tab width from default of 8 spaces.
	CTRL O R	Set right margin

Keypad	Ctrl Key	Operation
	CTRL O B	Set number of spaces to indent/unindent marked blocks. Default is 2.
	CTRL Q L	Restore original contents of current line

Matching and searching

We've shown you how to find and edit individual records in a database. Now we're ready to find and act on multiple records that have one or more things in common with each other.

The **Match** filter is a form you fill in on the screen that defines what kind of information *wcPRO* should search for. For instance, you can find all records older or newer than a certain date, or all records having a certain characteristic or combination of characteristics. You can get to the match screen in three ways: from the main menu selections **Match**, **Change**, **Delete** and **List**, or from the **Browse** window hotkey [ALT] [M].

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00
                          Edit File Match
File name          :
Size from          : 0              To        : 2147483647
Date from          : 01/01/00       To        :
Accessed from      : 01/01/00       To        :
Days old           : 0              Condition: Greater than or equal to
Days since DL      : 0              Condition: Greater than or equal to
Password           :                Required : N
Uploader           :
Description        :
Downloads from     : 0              To: 65535  Exists on disk     : Both
Cost from          : 0              To: 65535  Wrong date or size: Both
Never overwrite    : Both                      Upload in progress: Both
Never delete       : Both                      On CD             : Both
Free download      : Both                      Offline           : Both
Failed scan        : Both
Keyword            :
Stored path        :
Long description   :
 F2 Pick   F9 Areas   AltC Clear   AltL Load   AltS Save   F10 Ok
[F1] Help [ESC] Exit                                        | 143584
```

Your search criteria can be general, for instance all users with the security profile "NEWUSER", or it can be very specific, for instance all files that are dated more than six months ago, that have been downloaded fewer than 10 times, in file areas 1, 3 through 6, and 14.

Clearing the current match settings

You can clear any changes you made to a match filter, and restore all fields to their defaults, which is "all records", by pressing [ALT] [C].

Types of searches

There may be several pages of information in the match filter screen — use the [PG UP] and [PG DN] keys to display them, and edit them as necessary. Press [F10] to begin searching. When the search has completed, the Browse window will now show all records matching your search criteria. Any database field can be selected as a match item.

There are four general types of data in the Match screen which can be used to search user record information: **Text, Yes/no, Selection list** and **Ranges.**

Text

Contained within

A **Contained Within** match is made if the text entered is contained **anywhere** within the field. We'll take the user database as an example. Entering "Cov" in the user name field matches users named John Coventry, Roger McCove and Kristi Bacover. Entering "Jim H" matches Jim Harrer, Jim Harvey and all other users with the first name of Jim and last name beginning with H. All Contained Within fields operate in this manner.

The following table shows where you can find Contain Within fields.

User	Message	File
User Name	Subject	Description
Password	Message Body	Keyword
Title		Long Description
Alias Name		
Calling From		

User	Message	File
Computer Type		
Company		
Address		
City		
State		
Country		
Novell Name		
Comments		

Match from first

Another type of text field uses a different match criteria known as **Match From First.** This type of match is slightly different from the Contained Within search. A Match From First is made if the text or numbers entered match the text in the user data field from the **first position.** Such items as telephone area codes can be matched by entering, for example, 805 to match all phone numbers with 805 as the first three numbers.

The following table shows where you can find Match From First fields.

User	Message	File
Phone Number		
Data Number		
Zip code		

Exact match

An Exact Match requires that the text entered exactly matches that in the database field.

The following table shows where you can find Exact Match fields.

User	Message	File
	From	Uploader
	To	

Wildcard

A Wildcard search allows you to use the DOS Wildcard characters ? and *, to replace a single character or multiple characters. Wildcard searches are only available on the Filename field, in the File database.

Yes/No/Both

Yes/no or Boolean items are those that can be set to either **Yes** or **No** in a record, such as whether a user has an alias name, or whether a message has been received. You can match on records set to **Yes**, records set to **No**, or records set to yes *or* no by selecting **Both**. Since the default selects all records, it is set to Both. Highlight and press SPACE to toggle through the selections, or press F2 to pop up a selection list.

Ranges

Ranges are fields that allows you to specify a range of values between which the field value must fall in order to be selected. There are two different types of ranges: date and numeric. Some examples of date ranges include user record match fields **Last call, Expire date** and **User since.** Some examples of numeric ranges include file record match fields **Downloads from/to** and **Cost from/to.**

To change the value of a range, select the starting and ending fields and type in the appropriate value for each. The selection **includes** the values

on each end of the range. The default values are set to include all possible settings for each field.

Selection lists

A Selection List is used for any field that has a list of items associated with it, such as security profile. By default, all items are selected. To edit these items, highlight the field and press [ENTER] or [F2] to display the selection list. Once the list is displayed, use the [SPACE] to toggle items on or off. To select all items in a selection list press [ALT] [S], and to clear all items press [ALT] [C].

A match is made if the database record matches any of the selected list items. For example, if you select the user database match field Security Profile and set the selection dot on 3 different profile names, all users matching any of the 3 selected profiles will be selected. The general rule is, a record is selected if the record information matches **any one** of the selected items in the selection list.

Condition

The final type of match field is a **Condition**. This is used for any field that is **greater than or equal to**, or **less than or equal to** a given numeric value you enter. To edit these items, highlight the field and enter the number to match on, then move to the condition field and toggle the selections with the [SPACE]. If you set the numeric value to zero, all records are selected.

Match Criteria Application

Whenever more than one database field is used to establish a match filter, the filter only selects records that match **all** criteria. The fields are combined using the logical operator "AND".

The time required to process a match request depends very much on the type of fields used for the selection. Keyed fields produce the fastest search results, as *wcPRO* is able to read the special key file accompanying the database file. Searching on non-keyed fields requires *wcPRO* to compare every record in the database with the match criteria.

For example, if you want to select all users with a specific security profile, the search is much faster than selecting all users with display type set to Auto-Detect. However, *wcPRO* is designed to perform keyed searches first when a combination of keyed and non-keyed fields is used, a process that limits the number of non-keyed searches and speeds up the selection process. Nevertheless, some searches may take several minutes or longer to complete, especially on a large database.

The following table shows keyed fields in the user and file databases. The only indexed field in the message database is message number.

Users	Files
Name (last, first, UserID)	Area
Security	Name
Expire date	Date
Alias	Uploader
UserID	
Real Name (first, last)	

Loading and saving a stored configuration

When you have finished selecting the types of database fields you want *wcPRO* to search on, you can save your configuration so that you don't have to repeat the configuration process every time you search. You can also use the stored configuration to process your databases automatically during a system event, using the *wcPRO* command processor. Use [ALT] [S] to save your settings to a file, and [ALT] [L] to load a previously-saved file from the disk.

Listing records

Each database offers a variety of listing formats, including full and partial text of each record, plus dBase, mail merge and fixed length ASCII for some databases. By default, all records are listed. Use a Match filter to output a more selective list. Press [ALT] [M] to pop up the match filter screen from the List Users window.

Users

Listing user records is a three step procedure. First, select the fields to output. Next, select the listing format. Finally, select output file name. User record listing formats include all or selected user record fields in any combination, as comma delimited, fixed-length ASCII, dBase (.DBF) and mailing labels.

Fields to output

The User List Order screen is divided into 2 sections with the **available** user fields listed on the left and the **selected** fields listed on the right. To include a field in the listing, move the highlight bar over the field name and press [ENTER]. The selected field appears on the output side of the display. Continue selecting fields until all desired items are included in the output listing. To select **All** fields for output, press [ALT] [A]. You can select the same field more than once if it is needed multiple times in the output listing.

To change the order of the output fields, press v to switch to windows, then highlight the field name on the output list and press [ENTER]. Notice that the color of the selected field changes. Use your cursor keys to move the selected field up or down in the list, then press [ENTER] again to save its new position.

You can save your output settings for reuse later with [ALT] [S], or load a previously-saved configuration from disk with [ALT] [L]. The default file extension for saved user field lists is .PUF (PRO User Fields).

When you have finished selecting fields for output in the list, press [ESC] to return to the List Users window.

Output format

The next to select is the format of the output file. The choices are Comma delimited (mailmerge), Fixed length, DBF (dBase) and Mailing labels. Press SPACE to toggle through the list of choices, or F2 to pop up a selection list.

Comma delimited

Comma delimited is an output format also known as mailmerge. This type of file is used by many word processors and database programs for importing records. It places each selected record on a separate line with individual fields separated by commas and enclosed in quotation marks. An example line of a quote delimited file is:

```
"Herb Dunn","6200 Lake Ming Road","Support","Bakersfield","CA","93301"
"Steve Crippen","P.O. Box 2264","","Bakersfield","CA","93303"
```

Notice that any fields that contain blanks are still included, but with no text between the quotes. In this example, the third field of the second record is a blank second address line. Items do not line up in this format.

Fixed length

Fixed length is an output format in which records are listed one record per line with each field padded with spaces to the right. One field immediately follows the next with no spaces or other delimiters. This format is also used by many database programs for importing information. A fixed length file looks like:

```
Herb Dunn          6200 Lake Ming Road    Support
Steve Crippen      P.O. Box 2264
```

DBF (dBase)

DBF or dBase format is a structured record listing conforming to the specifications of Borland's DBF file format. It can be read and imported by dBase or compatible programs.

The following table shows field information for DBF format user listings.

User field	DBF field name	Type	Width
User name	USERNAME	Character	25
Password	PASSWORD	Character	14
Title	TITLE	Character	10
Nonblank alias	HASALIAS	Logical	1
Alias name	ALIAS	Character	25
Novell name	NOVELLNAME	Character	8
Security profile	SECURITY	Character	10
Locked out	LOCKEDOUT	Logical	1
Never delete	NEVERDEL	Logical	1
Login bell	LOGINBELL	Logical	1
Hide private mail	NOPRIVMAIL	Logical	1
Hide deleted mail	NODELMAIL	Logical	1
From	FROM	Character	30
Phone number	PHONENUM	Character	15
Data number	DATANUMBER	Character	15
Computer type	COMPTYPE	Character	15
Company	COMPANY	Character	30
Address line 1	ADDRESS1	Character	30
Address line 2	ADDRESS2	Character	30
City	CITY	Character	30
State	STATE	Character	2
Zip	ZIP	Character	10
Country	COUNTRY	Character	25
Comment line 1	COMMENT1	Character	30
Comment line 2	COMMENT2	Character	30

User field	DBF field name	Type	Width
Sex	SEX	Character	13
Editor	EDITOR	Character	11
More prompt	MOREPROMPT	Character	10
Help level	HELPLEVEL	Character	7
Protocol	PROTOCOL	Character	10
File display type	FILEDISP	Character	11
Page length	PAGELENGTH	Numeric	3
Chat available	CHATAVAIL	Logical	1
Hot keys	HOTKEYS	Logical	1
Display type	COLORMENUS	Logical	1
Quote on reply	QUOTEREPLY	Logical	1
Clear before msg	CLEARMSG	Logical	1
Last call date	LASTCALL	Date	8
Last new files	LASTNEWFIL	Date	8
Expire date	EXPIREDATE	Date	8
Memo date	MEMODATE	Date	8
First call date	FIRSTCALL	Date	8
Birthdate	BIRTHDATE	Date	8
Days since first call	DAYSFIRST	Numeric	5
Days since last call	DAYSLAST	Numeric	5
Days until expire	UNTILXPIRE	Numeric	5
Days since expired	SINCEXPIRE	Numeric	5
# of file overrides	FILEOVER	Numeric	3
# of conf overrides	CONFOVER	Numeric	3
# of confs selected	CONFSELECT	Numeric	3

User field	DBF field name	Type	Width
Active conference	ACTIVECONF	Numeric	3
Messages written	MSGSPOSTED	Numeric	5
Uploads	UPLOADS	Numeric	5
Downloads	DOWNLOADS	Numeric	5
Total calls	CALLS	Numeric	5
Time left today	TIMELEFT	Numeric	5
Daily download total	DAILYDL	Numeric	5
Daily downloadK total	DAILYDK	Numeric	10
Total upload K	TOTALUK	Numeric	10
Total download K	TOTALDK	Numeric	10
Total minutes online	TOTALMINS	Numeric	10
Account balance	SUBBALANCE	Numeric	11
Netmail balance	NETBALANCE	Numeric	11

Mailing labels

The **Mailing labels** format places fields in proper arrangement for printing on standard 15/16" mailing labels. It automatically selects the proper information from user records and does **not** require field selection using the **Fields to output** choice for operation. In fact, any user field selection is ignored when Mailing labels are processed. It prints Name, Company both Address lines, City, State, Zip and Country. The format is:

```
Full User Name
Company Name
Address Line 1
Address Line 2
City, ST  ZIP
Country
```

There are several formatting rules that are automatically applied to ensure the above format takes only **5 label lines**. All blank lines are omitted and

the country is omitted if the users country is the same as that of the Sysop name in *MAKEWILD*. If the country is needed and the Company, Address 1 and Address 2 are **all** used as well, the Company name is omitted from the label.

Output file name

Type the file name in this window. To list user records or mailing labels directly to your printer, type LPT1 (or other print device, depending on your configuration). If the output file already exists, *wcPRO* will ask if you want to overwrite the file. Answer Yes to overwrite, No to append.

Files

Listing file records is a two step procedure. First, select the listing format. Then select the output file name. Just as with the user database, you can output to a file on disk, or directly to your printer.

Output format

File record listing formats include single line, double line or full text listings of each record, plus dBase (.DBF).

Single line

The single line listing format lists one file per line, beginning with file name, size, and single line description. *wcPRO* prints a header for each file area it processes. Below is a sample of a single line file list.

```
wcPRO files listing.  Date: 06/03/94  9:23a

**** MSI WILDCAT! release files

HANDLES.ZIP      7K Check available file handles in current setup
PARTY.TXT        3K Information on our Open House and Wildcat! v4 Preview Party
WC26REC.TYP     42K Record structures for 2.5 and 2.6TD releases
WC40REC.ZIP     21K This is the structures and file layouts for Wildcat! 4.0
```

Double line

Here's the same file list in double line format.

```
wcPRO files listing.  Date: 06/03/94  9:23a

**** MSI WILDCAT! release files
HANDLES.ZIP      6,150   10/08/93 | Check available file handles in current
DwnLds: 232  Last DL:    05/21/94 | setup

PARTY.TXT        3,003   05/25/94 | Information on our Open House and Wildcat!
DwnLds: 119  Last DL:    06/03/94 | v4 Preview Party

WC26REC.TYP     42,226   10/08/93 | Record structures for 2.5 and 2.6TD
DwnLds: 187  Last DL:    06/02/94 | releases

WC40REC.ZIP     21,287   06/01/94 | This is the structures and file layouts
DwnLds: 125  Last DL:    06/03/94 | for Wildcat! 4.0
```

Full

Here's a sample of one of the files in the previous list, shown in full listing format:

```
wcPRO files listing.  Date: 06/03/94  9:24a
**** MSI WILDCAT! release files

File: WC40REC.ZIP                      Date: 06/01/94     Downloads: 125
Size: 21,287                  Last access: 06/03/94           Cost: 0
From: PAUL DAVIS                                            Free DL: No
Area: MSI WILDCAT! release files                            Offline: No
Keys: STRUCTURES, LAYOUTS, WILDCAT!, RECORDS, 4.0
Desc: This is the structures and file layouts for Wildcat! 4.0

This file contains all the current structure, door and database
information for Wildcat! 4, it is intended for individuals who want to
write third party software for Wildcat! 4.0
-------------------------------------------------------------------------------
```

DBF (dBase)

DBF or dBase format is a structured record listing conforming to the specifications of Borland's DBF file format. It can be read and imported by dBase or compatible programs.

The following table shows field information for DBF format file listings.

File field	DBF field name	Type	Width
Filename	FILENAME	Character	12
Size	SIZE	Numeric	11
Password	PASSWORD	Character	14
Date	FILETIME	Date	8
Last accessed	LASTACCS	Date	8
Uploaded by	UPLOADER	Character	15
Description	DESC	Character	75
Never overwrite	NVROVRWT	Logical	1
Never delete	NVRDELET	Logical	1
Free download	DONTCHRG	Logical	1
Upload in progress	UPLINPROG	Logical	1
File on CD	ONCD	Logical	1
File offline	OFFLINE	Logical	1
Failed virus scan	FAILEDSCN	Logical	1
Free time	FREETIME	Logical	1
Number of downloads	NUMOFACCS	Numeric	5
Cost	COST	Numeric	10
Area	AREA	Logical	1
Keyword 1-6	KEYWORD1-6	Character	10
Stored path	STOREDPTH	Character	80

Output file name

Type the file name in this window. To list file records directly to your printer, type LPT1 (or other print device, depending on your configuration). If the output file already exists, *wcPRO* will ask if you want to overwrite the file. Answer Yes to overwrite, No to append.

Messages

Listing messages records is a three step procedure. First, select the conference you want to list. Then select the listing format. Then select the output file name. Just as with the user and file databases, you can output to a file on disk, or directly to your printer.

Output format

Message record listing formats include single line, header only or full text listings of each record.

Single line

The single line format lists message number, from and to names and subject. Here's an example of a single line listing:

```
wcPRO message listing.  Date: 06/03/94  9:32a


**** Conference [   51] - MSI Corporate

2334   Fm: GWEN BARNES        To: ALL              Sb: OLX 1.52
2370   Fm: GWEN BARNES        To: ALL              Sb: password and proble
2399   Fm: GWEN BARNES        To: ALL              Sb: Comment 03/31/94 11
```

Header only

Here's the same listing in Header format:

```
wcPRO message listing.  Date: 06/03/94  9:32a


**** Conference [   51] - MSI Corporate

From: GWEN BARNES (TechWriter)          Number: 2334
  To: ALL                                 Date: 02/01/94  9:19a
Subj: OLX 1.52                           Refer: 10610
Read: [N/A]                            Private: No

From: GWEN BARNES (TechWriter)          Number: 2370
  To: ALL                                 Date: 03/01/94 10:43a
Subj: password and problems              Refer: 2616
Read: [N/A]                            Private: No

From: GWEN BARNES (TechWriter)          Number: 2399
  To: ALL                                 Date: 04/04/94  7:17a
Subj: Comment 03/31/94 11:35a            Refer: 16322
Read: [N/A]                            Private: No
```

Full text

And here is one of the messages from the list above, in full text format.

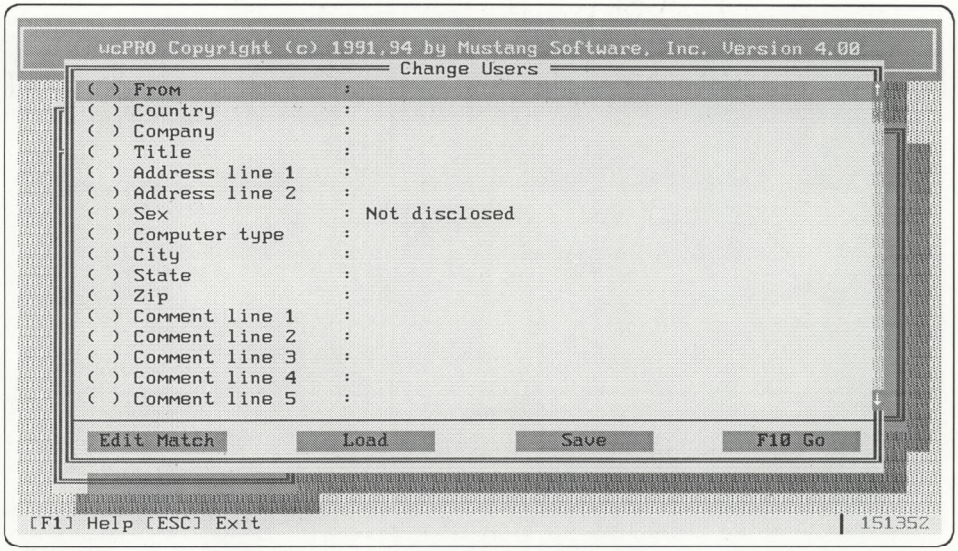
```
wcPRO message listing.  Date: 06/03/94  9:32a


**** Conference [   51] - MSI Corporate

From: GWEN BARNES (TechWriter)            Number: 2399
  To: ALL                                   Date: 04/04/94  7:17a
Subj: Comment 03/31/94 11:35a              Refer: 16322
Read: [N/A]                              Private: No

This message was from LEO LUNCH to GWEN BARNES
originally in conference Private on MUSTANG (MSI HQ BBS)
and was forwarded to you by GWEN BARNES
                    ----------------------------------------
Sure..I'm glad if I helped any.

Thanks alot for the great product. I started out with wildcat test drive
when I was a student as a hobby a little over two years ago while I was
looking for a job. Now my BBS is my full time job and I have a yearly
income of around $35,000.
 I'm real happy with what Wildcat did for me. I just wanted to say
thanks to someone..

- Leo
--------------------------------------------------------------------------------
```

Output file name

Type the file name in this window. To list message records directly to your printer, type LPT1 (or other print device, depending on your configuration). If the output file already exists, *wcPRO* will ask if you want to overwrite the file. Answer Yes to overwrite, No to append.

Changing records

You can change virtually any combination of fields in a group of file or user records. The Change Files and Change Users screens pop up a selection list. By default, no items are selected. To select these items, highlight the field and press ENTER, then select or fill in the information you would like to place in the selected field for all the records to be changed.



Both of these windows contain more information than will fit on a single screen. Use the scroll bar on the right of the window or your PG UP and PG DN keys to see all the possible selections.

Be very careful with this option. By default, all records are selected. Use a match filter to select a group of records to change, and list or browse your selections to be sure these are the records you want to change!

Adding and subtracting values

Note that by default, date and numeric fields are absolute values — changing the value in one of these fields does not add the new value to the caller's current total, rather it *replaces* whatever was in the caller's user record with the new data.

You can add or subtract a numeric value from a caller's current total by placing a plus or minus sign before the numeric entry. For instance, to add 1000 credits to a caller's subscription balance, enter

```
+1000
```

in the Subscription Balance field.

To subtract credit for 10 uploaded files from a group of callers, enter

```
-10
```

in the Uploads field.

Creating a log file of your changes

Near the bottom of the Change Files and Change Users screens is **Log Filename.** If you would like to log *wcPRO*'s activity during a change, toggle this item on, and enter the file name and path where you want the log file recorded.

Users

You can change most of the fields in the user record, with the exception of Name, Alias and conference selections such as high message number and personal mail waiting.

Files

Most file record fields can be changed, with the exception of file name. One option to note near the bottom of this screen is **Add files from disk.** *wcPRO* will scan your *Wildcat!* file areas for files that are on disk but not in the database, and automatically adds them to the database for you.

Loading and saving a stored configuration

When you have finished selecting the types of database fields you want *wcPRO* to change, you can save your configuration so that you don't have to repeat the configuration process every time you change records. You can also use the stored configuration to process your databases automatically during a system event, using the *wcPRO* command processor. Use ALT S to save your settings to a file, and ALT L to load a previously saved file from the disk.

Deleting records

Use this sub-menu choice to delete all records matching the filter criteria set in the match option. This option displays a data entry screen requesting a log file name for the process. *wcPRO* will prompt you for confirmation before deleting records.

The file database delete operation offers three options: delete files on disk only, in database only, or both database and disk only. One way to use these options is to delete file database records for files missing from the disk, or to delete files from the disk after flagging them as "off-line" in the file database.

Warning

Be very careful with this option, especially since the default match filter selects all records. Deleted user and file records cannot be recovered! You may want to browse or list selected records first to be sure these are the records you want to delete.

Moving Conferences

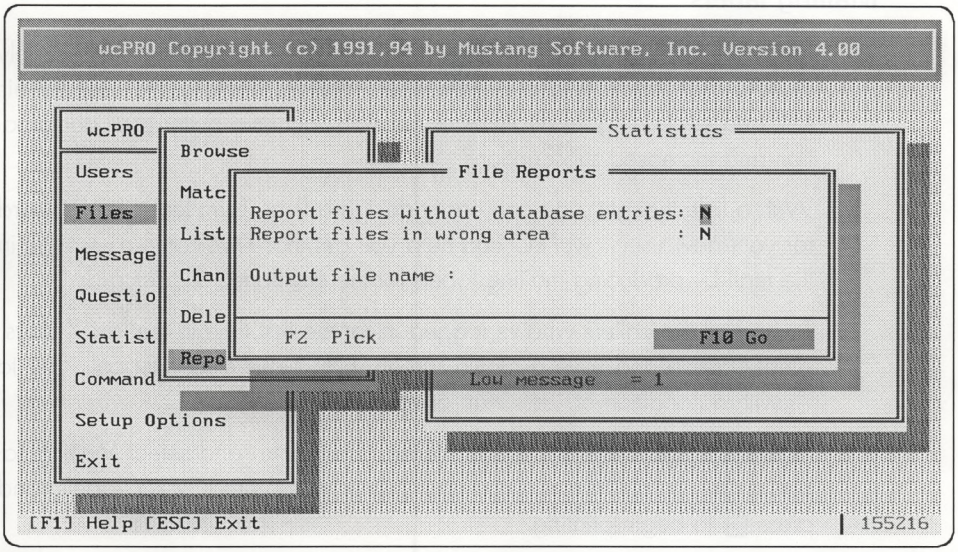
The Message section has a **Move Conference** menu command to move all messages from one conference to another. In doing so it deletes all messages in the destination conference if any exist. Note that all nodes must be DOWN to execute this function.

When selected, this option displays a pick list of all conferences, and asks you to select the conference to be moved. After making your selection, the list is redisplayed with a prompt for the destination conference. When both entries have been made a confirmation message is displayed:

```
Are you sure you want to make this change?
```

Be very careful with this option since the destination conference is completely overwritten by the move command. It is designed to move all messages from one conference into a new, empty conference rather than to an existing one. After completing the message database move, all user records are properly updated with changes to their selected conference sets and the conference they last entered before logoff (if indicated).

Reports



The **File** selection offers one additional choice: Reports. The reports function creates a log file showing files without database entries and files in the wrong file area.

The first option prints a report of all files on the disk **without database entries**. This list checks all file areas when generating the report. Files found can be deleted by using the Match filter to select the file areas to delete, and then the Delete option to remove the files.

The second option prints a list of all **files in the wrong file area**. This list is designed to show files for which multiple copies exist in different file areas on disk, or which exist in one file area in the database, but are actually on disk in a different file area instead. Note that this function only checks disk directories assigned to file areas.

After selecting the type of report press F10 to begin processing.

Examples

Mailing labels

Studies by BBS experts have shown that sysops who respond immediately to new user logins with a personalized mailing thanking the user for his call and explaining the features of the BBS, achieve better user participation and increased subscriptions.

With a little thought, you can easily design a flyer, form letter, or postcard for your new users. *wcPRO* can help you get those welcome messages in the mail by producing mailing labels for the envelopes or postcards.

To find all the callers who've logged in for the first time in the last 7 days, simply create and save a match screen with "Days since first call:" set to 7, with a condition of "Less than or equal to".

From there, go to the List section of the User menu, and select Mailing Labels as the output format. Load your printer with 1-up 15/16" labels, and press F10 to begin printing.

Making a group mail distribution list

You can use the GROUP###.LST feature in *Wildcat!* to send a single message to an entire group of callers whose names are in a distribution list. In this example, we want to create a group mail distribution list of all the staff in the customer service department at XYZ company so you can keep them informed of pricing and order information for new products.

Our customer service staff all have the text "Sales" in the Title field in their user records, and XYZ Company in the Company field. Our hypothetical BBS has other staff departments, and sales staff from other companies, none of whom should receive this distributed mailing.

The match screen to find these users would look something like this:

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00
                    Edit User Match                          Hot Buttons
User name          :                                         Security
UserId             : 0            To: 2147483647
Title              : SALES                                   Secondary
Has alias          : Both
Alias              :                                         AltC Clear
Novell name        :
                    Restrictions                             Sex
Locked out         : Both
Never delete       : Both                                    Editor
Bell at login      : Both
Hide private mail  : Both                                    More Prompt
Hide deleted mail  : Both
                    Information                              Help Level
Calling from       :
Phone number       :                                         Protocols
Data number        :
FAX number         :                                         File Display
Computer type      :
Company            : XYZ COMPANY                             Msg Display
 F2 Pick   F9 Buttons   AltL Load   AltS Save   F10 Done     Scrn Display
[F1] Help [ESC] Exit                                         | 117600
```

We'll save this filter as XYZSALES. Next, go to List Users, and select the fields to output. In this case we only need to output the users' names. Select User Name as the field to output, and save the user list order screen as XYZSALES. *wcPRO* will automatically append the appropriate extension to the files you save. Select Fixed Length as the output format, and \WILDCAT\DISP\GROUP1.LST as the output file name. Press F10 to begin processing.

You can now address a message to GROUP1.LST, and *Wildcat!* will distribute it automatically to all the people listed in the file.

Files

Screening file uploads

Many sysops pride themselves on the quality of their file sections, and *wcPRO* can help you keep your file library in top condition.

There are many good third-party programs designed to work with *Wildcat!*'s upload processing function, which scan for viruses, remove known BBS ads, and test the integrity of the file.

But these utilities only go so far. A caller may, for instance, provide a misleading or uninformative description for a file, or, worse, upload a commercial program to your BBS. These may well pass the automated upload testing, but aren't yet ready for your other callers to download.

You can use *wcPRO*'s various features to screen your new uploads, view their contents, edit their descriptions, and move approved files to the download areas. You can even write a "thank-you" note to the uploader.

We'll define and save a match filter to find newly-uploaded files in your upload directories. Select Match from the Files menu, and select the file area or areas to which your callers can upload.

From there, go to the Browse menu. Only the files matching your criteria will be displayed. If the file is compressed using any of a variety of archiving programs (for instance PKZIP, LHA, and ARJ), you can view a list of files within the archive by selecting the file with the highlight bar and pressing [ALT] [V].

If the archiver used to create the compressed file is present in your WILDCAT directory or DOS path, you can even view the contents of individual files, in text or hexadecimal format, by pressing [ENTER] again on the highlighted file. This is a good way to weed out files that should NOT be on your BBS, such as a commercial program, or one with incomplete documentation. And if the caller's description was misleading, a check of the documentation should provide a better clue about the program's function and potential usefulness.

You can even view picture files with an external file viewer if you have entered the extension and matching viewer utility in the Setup Options section of the *wcPRO* main menu.

If the file contains a BBS ad or other extraneous file skipped by your upload processor, you can view and delete the ad by pressing [ALT] [D]. The file size and date will be updated in the file database automatically.

Finally, you can view the user record of the uploader by pressing [ALT] [U]. You may wish to upgrade the caller's security, or just satisfy your own curiosity about the identity of the uploader. From the user record, you can press [ALT] [W] to load the message editor, and write the caller a message.

Your [ESC] key will bring you back to the file menu, where you can now move or delete the file.

Moving files offline

Sometimes a Sysop's shareware file collection grows faster than the amount of available disk space. Rather than delete old files forever to free up hard drive space, it's often a good idea to move old or seldom-downloaded files onto a tape archive or floppy disk and mark them "Off-line" in *Wildcat!*'s file database.

If a caller tries to download one of these "off-line" files, *Wildcat!* will automatically send a private message to you requesting the file.

When a caller requests an off-line file, it's a simple procedure to restore it from your backup, reset the "Off-line" flag, and make it available for a limited period of time before removing it again. You may even attach the file to an E-mail message directly from a floppy disk.

Your first step, obviously, is to make a complete backup of the files in your download areas, in case you need to restore one or more of them later in response to a caller's request.

The next step is a simple one. Go to the Files section of *wcPRO*, then define a match screen. First, we'll search for files more than two years old, more or less, so set the Date from 01/01/80 to 01/01/92. Then select the file areas you wish to include in the search. We'll look for files that have not been downloaded in the past six months, so set Days since DL to 180, and set the Condition to Greater than or equal to.

Press [F10] to confirm your selections, then go to the Delete section of the Files menu. Use the [SPACE] to toggle the delete type to "Disk only". This will remove the files from the disk, while leaving their database entries intact. The "Off-line" flag will be set automatically in the database entry for each

file. Enter a Log file name if you wish, then press F10 to begin processing (you did remember to save a backup of your files first, didn't you?).

3 - Questionnaires

Opinion is ultimately determined by the feelings, and not by the intellect

Herbert Spencer

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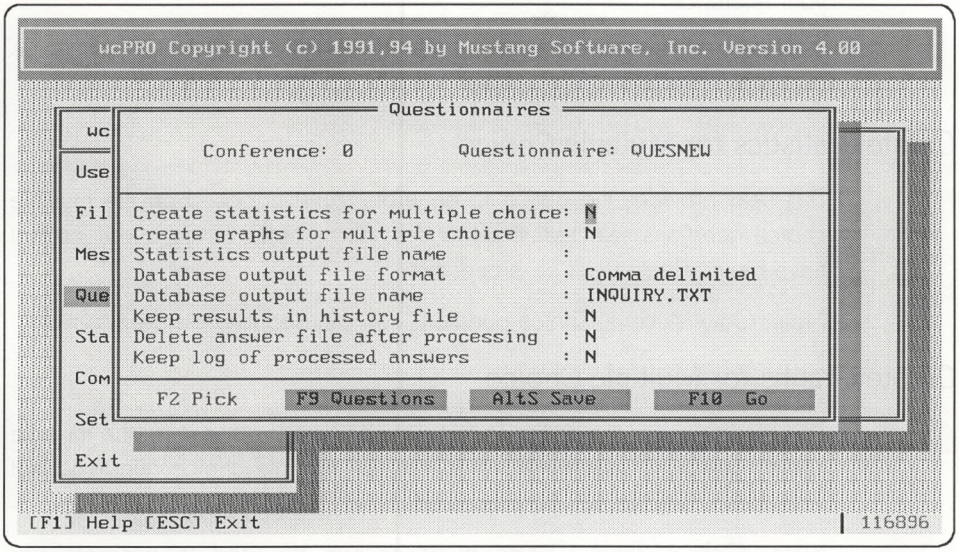
The questionnaire management portion of *wcPRO* creates export files and statistical analysis from the answer files generated by callers. A history file option allows *wcPRO* to maintain an archive of answers as they are processed for future reference.

Selecting the type of data to report



Since questionnaires can be different on a conference basis, the first selection asks for the conference number. Type in the conference number or press F2 to pop up a selection list.

Next,. enter the name of the questionnaire to process, or press F2 for a selection list. Only valid questionnaire names are accepted.

Next, select the type of questionnaire data to process, and the format for the output files.

Finally, press F9 to select the questions to process. *wcPRO* will load the data file for the questionnaire you selected into a window on your screen. Move the highlight bar and press ENTER or SPACE to toggle the selection dot

beside each question. Note that you can only select question types that prompt the caller for a response.

The first four items listed are the user's Name, the Date and Time of the answer, and the user's Location and Phone number as listed in the *Wildcat!* database when the answers were generated. This information is not actually a part of the questionnaire, but is included in the answer file for your reference.

When you have finished selecting the questions to process, press F10 to return to the Questionnaires screen.

Create Statistics for Multiple Choice

This field provides the option to generate statistics based on the multiple choice questions selected. If set to Yes, all multiple choice questions that have been selected will be processed.

Note: Only Multiple Choice questions can be used to generate statistics.

Create Graphs for Multiple Choice

This field provides the option to generate bar graphs based on the multiple choice questions selected. If set to Yes, all multiple choice questions that have been selected will be processed.

Note: Only Multiple Choice questions can be used to generate bar graphs.

Statistics Output File Name

This field allows you to specify the filename containing the statistical analysis of selected multiple choice questions. It contains both the statistics and graphs, if requested. It may be any valid DOS filename desired.

Note: Only Multiple Choice questions can be used to generate bar graphs or statistics.

Database Output File Format

This option is used to specify which database export format should be created, if any. All question types can be used to generate database out-

put. The default is **None**, indicating that no database output file should be created. If you wish to create an output file, press F2 and select the format. The choices are **Comma delimited** (mailmerge), **Fixed length** and **DBF (dBase)**.

Comma delimited is an output format also known as mailmerge or "Quote Comma Quote". This file format is used to import records into many word processing and database programs. Each user's answers are placed on a separate line, with answers to individual questions separated by commas and enclosed in quotation marks.

All selected questions are included in the export, in the order they are asked. Note that any questions not answered by a caller (due to a branch or otherwise) are still included, but with no text between the quotes.

Fixed length is an output format in which each user's answers are listed on one line with each question padded up to the maximum answer length, depending on the question type. One field immediately follows the next with no spaces (except for padding to the maximum for the field length) or other delimiters. Many database programs are able to use this format to import records.

DBF or **dBase format** is a structured record listing conforming to the specifications of Borland's DBF file format. It can be read and imported by dBase III and IV, and compatible programs. All selected answer fields are included, in the order in which they occur in the questionnaire.

Field Name	Length
USERNAME	25
DATETIME	17
FROM	30
PHONE	15
Numeric	10
Choice	72

Field Name	Length
Date	10
Phone	15
Time	5
State	2
Zip	10
Mastercard	25
Amex	23
Visa16	25
Visa13	22
SS	21
Yes/No	2
Yes/No Branch	71
Sex	13
Protocol	10
Help	7
Editor	11
Alias	25

Fields that are of the "Text" format have widths that are specified by you when you create the questionnaire. The data in the ANSWERxxx fields is just a transcription of what you see in the questionnaire answer file. You will need to interpret this data as appropriate for your application.

Database Output File Name

This field allows you to specify the file name for the database output, in the format selected. It may be any valid DOS filename desired. If the output format is set to None, no output file is created.

Keep Results in History File

This option allows *wcPRO* to maintain an ongoing history of the statistics generated from multiple choice questions. As each new answer file is read, its statistics are added to the previous history file, if it exists. If a history file is used, the statistics generated indicate the total of the current answer file and the history to date.

Delete Answer File After Processing

This option deletes the answer file after processing. If the answer file is not deleted, additional answers are appended and the next processing will again include the same answers. An alternative to keeping the answer files and allowing them to grow quite large is to make use of the log file discussed below.

Keep Log of Processed Answers

This option allows *wcPRO* to process answer file and then delete it (using the above option) while still retaining a copy in a special log file for review at a later date. The log file name is the same as the questionnaire with the extension .PQL (PRO Questionnaire Log). All subsequent answer files are appended to this file to maintain an archive.

Loading and saving a stored configuration

Configuration files can be saved for future re-use either interactively, or during a batch file-driven system event, using the Command files option.

As with other modules of *wcPRO*, save your configuration with ALT S, then type a suitable filename when prompted. Configuration files are saved on a conference basis, and are located in the conference questionnaire directory with the extension .PQC (PRO Questionnaire Configuration). Configuration files are loaded automatically when a questionnaire is selected for processing later.

Generating a report

When you have completed your configuration, press F10 to begin processing.

4 - Statistics

There are three kinds of lies: lies, damned lies, and statistics

Benjamin Disraeli

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The Statistics option provides an easy way to see exactly what your *Wildcat!* system has been doing. *wcPRO* provides a multitude of statistics on almost every aspect of your system, from connect rates to number of calls per hour.

Selecting the type of data to report

The Statistics selection displays the following configuration window:

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00

                          Statistics
                            Tables
General statistics    : Y
Average user          : Y
Bulletin statistics   : 10    (0=none)
Message statistics    : Y
Questionnaire stats   : 10    (0=none)
Door statistics       : 10    (0=none)
Area code statistics  : 10    (0=none)
Top file downloads    : 10    (0=none)
Top downloaders       : 10    (0=none)
Top uploaders         : 10    (0=none)
Node efficiency       : Y
Sysop Statistics      : N
                            Graphs
Baud rate             : Y
Download protocol     : Y

 F2 Pick  AltN Nodes  AltF File  AltC Conf  AltL Load  AltS Save  F10  Go

[F1] Help [ESC] Exit                                          145720
```

This screen allows you to define the appearance of the statistical output as well as the areas of the BBS from which the statistics are drawn. This is the only menu screen, and it controls the entire functionality of this feature.

The status line at the bottom of the screen indicates the options available.

By default, the statistics generated reflect activity in many BBS areas. The output can be restricted by changing the following screen selection criteria. Examples of each output screen are at the end of this chapter.

Nodes

Press ALT N to pop up a selection list of nodes. By default all nodes with activity logs are selected — you may choose not to report statistics for a local node if you don't want to include local logons in the calculation. Toggle the selection dot OFF for any node or group of nodes whose activity you prefer not to report. *wcPRO* will not read activity logs for nodes you de-select.

File areas

Press ALT F to pop up a selection list of file areas. By default, all file areas are selected. Toggle the selection dot OFF for any file area or group of file areas whose activity you prefer not to report. If you want to report upload statistics, be sure to toggle your upload file areas on. This option has no effect on file download counts or other statistics — it only limits the inclusion of certain filenames in the file download table.

Conferences

Press ALT C to pop up a selection list of conferences. By default, all conferences are selected. Toggle the selection dot OFF for any conference or group of conferences whose activity you prefer not to report. This affects the Bulletin, Message, Questionnaire and Door table statistics as well as all file transfers.

Tables

Much of the analysis is presented in the form of tables. Various items can be omitted by changing the flag from Yes to No.

General statistics

These statistics show the BBS activity as a whole. Reports include total number of calls for each baud rate, day of the week and hour, the number of new users added, uploads and downloads, message activity, questionnaire and bulletin usage, and much more.

Average user

These statistics show a profile of the average user: number of calls, time per call, number of downloads, preferences such as transfer protocol, editor type, menu level and hotkeys, and demographic information such as age and gender.

Bulletin statistics

These statistics indicate how many bulletins were read during the reporting period, and include totals and percentages for each bulletin. Since each conference may have its own path for bulletins, bulletins from all selected conferences are grouped together in order of popularity. Each bulletin listed indicates the conference to which it belongs.

To limit bulletin statistics to only one conference or a selected group of conferences, toggle the selection dot ON in the conference list selection for each conference you wish to include. If two or more conferences share the same path for bulletins, only the first conference number is indicated with the bulletin number.

BULLNAME.TXT

The normal bulletin statistics display defines only conferences and bulletin number. If you would like to display the name of the bulletin along with the bulletin number, you can create a text file called BULLNAME.TXT in your WILDCAT directory, in the following format.

```
conf#,bull#,30 character description
```

Here's an example of BULLNAME.TXT:

```
0,1,Information on this system
0,2,The echomail guidelines
0,3,What's new in Bakersfield?
0,4,This week's modem news
```

Message statistics

These statistics indicate how many messages were entered during the reporting period, and include totals and percentages for each conference selected.

Questionnaire statistics

These statistics indicate how many questionnaires were answered during the reporting period, and include totals and percentages for each questionnaire. Since each conference may have its own path for questionnaires, questionnaires from all selected conferences are grouped together in order of popularity. Each questionnaire listed indicates the conference to which it belongs.

To limit questionnaire statistics to only one conference or a selected group of conferences, toggle the selection dot ON in the conference list selection for each conference you wish to include. If two or more conferences share the same path for questionnaires, only the first conference number is indicated with the bulletin number.

QUESNAME.TXT

The normal bulletin statistics display defines only conferences and bulletin number. If you would like to display the name of the bulletin along with the bulletin number, you can create a text file called QUESNAME.TXT in your WILDCAT directory, in the following format.

```
conf#,ques#,30 character description
```

Here's an example of QUESNAME.TXT:

```
0,1,Questionnaire number 1
0,2,Visa and Mastercard orders
0,3,American Express orders
0,4,Do you like this BBS?
```

Door statistics

These statistics indicate how many doors were entered during the reporting period, and include totals and percentages for each door. Since

doors are shared between conferences, no conference breakdown is necessary.

wcPRO reads your *Wildcat!* configuration files to get the names of doors and external programs for its report. To prevent certain doors from appearing in the report, you can create a file called BADDOOR.TXT in your WILDCAT directory, listing the description from *MAKEWILD* of each door you do not want to list. Here is an example:

```
OLX for DOS Beta
QMPro for DOS Beta
Update Dealer Info Database
```

Area code statistics

This table shows the area codes from which most of your calls came during the reporting period. *wcPRO* uses a configuration file called AREACODE.TXT, which consists of each area code you want to report, followed by the location. Here is an example of a portion of AREACODE.TXT:

```
201, Newark New Jersey
202, Washington D.C.
203, Connecticut
204, Manitoba
```

Top file downloads

This table indicates the most popular files downloaded with a portion of the description for each file. The number in this field is the number of "most popular" files that will be listed in this table—enter 0 (Zero) in this line to turn off this listing.

Top downloaders

This table indicate the names of the users who downloaded the most files during the reporting period. The number in this field is the number of "most active" downloaders who will be listed in this table—enter 0 (Zero) in this line to turn off this listing.

Top uploaders

This table indicate the names of the users who uploaded the most files during the reporting period. The number in this field is the number of "most active" uploaders who will be listed in this table—enter 0 (Zero) in this line to turn off this listing.

Node availability

This table indicates the percent of time each node was available for calls during the reporting period. If you don't want local Sysop logins to count in this calculation, turn off reporting for your local node.

Sysop Statistics

The Sysop Statistics report shows such activities as illegal login attempts, logoff type, password, phone and date of birth security verification errors, download failures and system errors. By default this information is not compiled, toggle this option to Yes to report Sysop statistics.

Graphs

A selection of statistics are also displayed in bar graph format. You can exclude any graph by changing the flag from Yes to No.

Baud rate

Displays a stacked bar graph of the modem connect rates during the reporting period. Each bar displays the portion of connections not using hardware error-control such as MNP, stacked on top of those with error-control connections.

Download protocol

Displays the file transfer protocols most frequently used for downloading, including any external protocols defined in *MAKEWILD*.

Upload protocol

Displays the file transfer protocols most frequently used for uploading, including any external protocols defined in *MAKEWILD*.

Logoffs

Displays a graph of the disconnect method during the reporting period. Graph items include normal, dropped carrier, time exceeded, no activity and forced off.

Calls by day

Displays a graph of the busiest days of the week for the nodes included in the report.

Calls by hour

Displays a graph of the busiest times of the day for the nodes included in the report. The graph is based on an hourly interval.

Parameters

These two selections help you manage the way *wcPRO* stores data from prior statistics reports.

Use history file

This item allows *wcPRO* to incorporate statistical summary information from previous sessions in its current report. Select Yes to make use of the current activity log files and then add the summary information from a previous session.

The summary information is automatically created during every session and appended to if the history file option is enabled. If history is not enabled, the previous history file is replaced with the current summary. The history file is designed for sysops who want to present an accurate long-term summary of BBS activity, without the problems of retaining huge activity log files. The filename is PROSTAT.###, and is only readable by WCPRO.

Erase activity log

This item allows *wcPRO* to delete the activity log file(s) after the statistics have been compiled. Setting this option to Yes helps keep the size of the log files down to a manageable size.

If you are using the history file, the activity log should be erased or copied to another area to avoid re-processing data on subsequent passes.

Output files

You have three choices for output files. By default, *Wildcat!* will display the .BBS and .RIP versions of these files from the main menu selection "Display Statistics". These files must be located in the WILDCAT directory in order to display from this menu selection.

If you prefer to save one or more of these files with another name, for instance as a bulletin or hello screen, enter the appropriate path and file name for each display file type in this window.

Text (no color codes)

This file is a formatted text file with no color information. The default file name is WCPRO.TXT.

Color (@ codes)

This file is formatted with *Wildcat!* @-color codes and is intended for use as a display file. *Wildcat!* will automatically add or strip color information when a caller views this file, depending on the caller's display preference.

The default file name is WCPRO.BBS. If you prefer to display this information as a bulletin or other display file, enter the path and filename for *wcPRO* to create.

RIPscrip and @ Codes

This is the RIP version of the *wcPRO* statistical report file, and is displayed to callers whose display type is set to RIPscrip. The default filename is WCPRO.RIP. If you prefer to display this information as a bulletin or other display file, enter the path and filename for *wcPRO* to create.

Loading and saving a stored configuration

When you have finished selecting the types of reports you want *wcPRO* to generate, you can save your configuration so that you don't have to repeat the configuration process every time you compile your BBS's statistics. You can also use the stored configuration to process your statistics automatically during a system event, using the *wcPRO* command processor. Use [ALT] [S] to save your settings to a file, and [ALT] [L] to load a previously-saved file from the disk. We'll tell you more about command files in the next chapter of this book.

Generating a report

Once you have defined the statistics you wish *wcPRO* to report, press F10 to begin processing. As each activity log file is read, the screen displays a completion bar graph indicating the approximate progress.

After *wcPRO* has finished reading the activity logs, it scans the user database to compile the average user profile. This process displays a similar progress bar graph while compiling the statistics.

Press ESC key to interrupt processing.

5 - Command files

Believe me! The secret of reaping the greatest fruitfulness and the greatest enjoyment from life is to live dangerously!

Friedrich Nietzsche

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In the previous chapters, we've discussed how to find and perform operations on records in your *Wildcat!* User, Message and File databases, and how to extract useful information from your questionnaires and activity logs.

In this chapter, we'll show you how to perform all these operations automatically, as part of your regular BBS maintenance.

What is a command file?

A command file is one or more lines of instructions for *wcPRO*. Each line specifies the type of operation, the database to perform the operation on, the match filter and any additional parameters for the operation, and the name of the logfile to create.

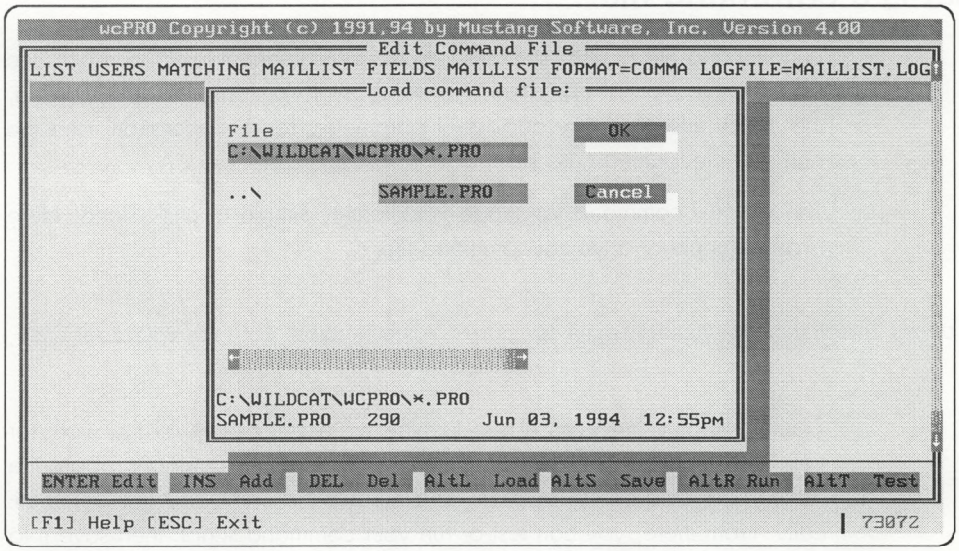
The *wcPRO* command language is extremely simple to understand. Here is an example of a typical command file:

```
LIST USERS MATCHING NEWUSERS FIELDS MAILLIST FORMAT=COMMA LOGFILE=MAILLIST.LOG
```

Command files are even easier to write — *wcPRO* does all the work for you. The Command File editor asks you a series of questions about the work you would like to perform, and creates the command line automatically. From there, you can test or run your command script, then save it to disk once you've verified that it works as expected.

Using the Command File editor

To start the editor, select Command Files from the *wcPRO* main menu. We have created an example command file called SAMPLE.PRO to show you some of the command file options. Press [ALT] [L] and highlight the file name SAMPLE.PRO to load the file.



A single command file can contain up to 50 separate command lines, each of which performs one *wcPRO* operation. In our sample we have created two operations, one for message deletion and one for file listing.

Now press [INS] to add another line to the command file. Two more windows will pop up over the editor window. The window at the top of the screen shows a sample command line. The window near the bottom of the screen shows a list of all the possible operations you can perform. Move the cursor up and down in the list, and notice how the display in the top window changes.

Press ENTER to select the operation you want to perform. Another window will pop up so you can enter the additional information *wcPRO* needs to execute your command. You enter data in this window in the same way as most other data entry windows in *wcPRO* and other *Wildcat!* utilities.

Loading and saving command files

The ALT L Load and ALT S Save buttons in the Command File editor work in much the same way as the load and save functions in other parts of *wcPRO*. Command files are saved with the extension .PRO.

Testing a command

Before you save and run your command file, it's a good idea to test it, to be sure that you've used the right match filters, and that the operation performed by *wcPRO* is actually what you wanted it to do. Use the ALT T Test button at the bottom of the screen to test your command without actually changing any database records.

By default, *wcPRO* acts on *all* records unless you specify a match filter. Be sure to test your command file to verify that it performs the actions you want!

Running a command file from the editor window

You can run a command file from the editor window with the ALT R Run button. *wcPRO* will execute the commands currently on the screen just as if you had loaded it from the *wcPRO* command line.

Batch Operation

Once a .PRO file has been saved to disk, unattended operation is possible, using batch files and *Wildcat!*'s event manager.

The format for executing a command file is:

```
WCPRO COMMAND.PRO
```

The command file COMMAND.PRO is executed in the same way as the [ALT] [R] command within the program. The screen display indicates all activity during execution. To set up an automatic event, follow the instructions in the Event Management section of the *Wildcat!* Sysop Guide.

Many routine BBS maintenance tasks can be performed during a scheduled event by *wcPRO*, using its built-in match filters and command files.

The procedure for creating these automated processing events is very simple, and we give a few examples in this chapter to get you started. They are presented step-by-step with illustrations of sample screens.

Examples

The following list of examples show only a few of the many ways *wcPRO* can help you manage the information on your BBS.

Deleting inactive callers

If you run a BBS open to the public, your user list will eventually contain a lot of people who call once or twice, take a look around, then never call again. To make user maintenance less complicated, you can delete these inactive records automatically.

From the *wcPRO* main menu, select Users, then select Match. In our example, we will delete all callers who have called fewer than 3 times, who have never applied for upgraded access, and have made no calls in the last 180 days. Your match screen should look something like the following illustration.

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00β Ver R
                          Edit Message Match
Number from        : 0            To            : 65535
From               :
From user ID       : 0            To            : 2147483647
Fido from          : 0    :0    /0    .0      To: 65535:65535/65535.65535
To                 :
To user ID         : 0            To            : 2147483647
Fido to            : 0    :0    /0    .0      To: 65535:65535/65535.65535
Subject            : LOGIN FAILURE
Network            :
Date written from  : 01/01/00     To            :
Date read from     : 01/01/00     To            :
Days old           : 0            Condition     : Greater than or equal to
Private            : Both         Receiveable   : Both
Echo               : Both         Sent          : Both
Received           : Both         Has replies   : Both
Receipt            : Both         Deleted       : Both
Carboned           : Both         Tagged        : Both

  F2 Pick      AltL Load      AltC Clear      AltS Save      F10  Ok

[F1] Help [ESC] Exit                                          145848
```

Note the entries on this screen. For "Days since last call", we've entered 180, and selected a condition of "Greater than or equal to". For Total calls, we've entered a range of 0 to 2. Anyone who has called more than twice will escape being deleted. Finally, select the security profiles to match on, for instance NEWUSER or UNVERIFIED, to identify the "just looking" callers.

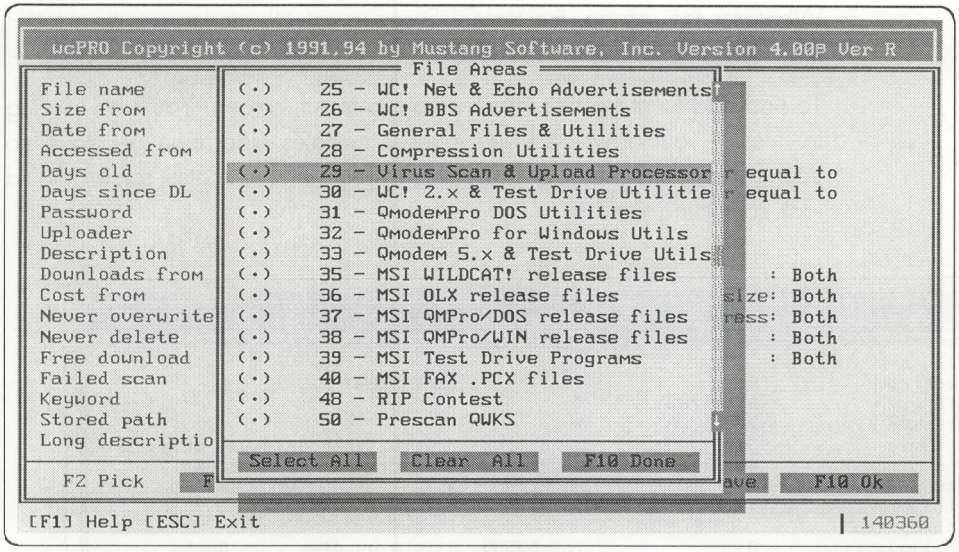
Save this match filter as OLDUSERS. We'll use it in a DELETE operation in the Commands section later on.

Creating an ALLFILES list

As a favor to your long-distance callers, or to those callers who prefer to view your file listings after logging off, you might like to create a text file containing your complete BBS file listing, and allow your callers to download it.

To create the listing, start *wcPRO*, then select "Files". From there, select "Match", to build the search criteria for the listing. You do not necessarily want to list files in every directory — for instance you may have a "Sysop's eyes only" area for private uploads. You may also want to exclude password protected files, and files which failed the post-upload virus scan.

Select "Areas:", then press ENTER to add or remove specific file areas from the listing as shown in the following illustration, taken from the MSI HQ BBS file areas.



Save your match screen by typing [ALT] [S], and name it ALLFILES. We'll use this match filter later in a command script with the LIST operation.

Correcting the date & size of files

For any number of reasons, the file date and size on disk may not match the date and size in the *Wildcat!* database.

A good example is when a Sysop uses the [X]fer option on *Wildcat!*'s Sysop menu to move a file from the new uploads directory to the download section. This operation moves the file, and stamps the database entry with the current date so the file shows up in a [N]ew files scan.

Another example would be a utility which removes ZIP comments and BBS ads from files on disk, and resets the file date to the newest file inside the archive, but does not update the *Wildcat!* database listing for the file's date and size.

The final example is to update the database record for files which are updated on disk frequently, for instance the ALLFILES.LST we will be creating in this event.

Whatever the reason, the typical Sysop eventually ends up with a lot of files whose database entries have the wrong date, wrong size, or both.

To find and fix these files, we'll create a match screen. You'll be looking for files in your download directories with dates older than 30 days, so your callers still have some new files to look at. The match screen would look something like this:

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00P Ver R
                          Edit File Match
File name        :
Size from        : 0              To        : 2147483647
Date from        : 01/01/00       To        :
Accessed from    : 01/01/00       To        :
Days old         : 30             Condition: Greater than or equal to
Days since DL    : 0              Condition: Greater than or equal to
Password         :                Required : N
Uploader         :
Description      :
Downloads from   : 0              To: 65535  Exists on disk     : Both
Cost from        : 0              To: 65535  Wrong date or size: Yes
Never overwrite  : Both                      Upload in progress: Both
Never delete     : Both                      On CD             : Both
Free download    : Both                      Offline           : Both
Failed scan      : Both
Keyword          :
Stored path      :
Long description :

 F2 Pick   F9 Areas   AltC Clear   AltL Load   AltS Save   F10 Ok

[F1] Help [ESC] Exit                                          | 143632
```

Make note of the match items we've selected in this screen. We are looking for files more than 30 days old, not on CD or flagged Off-line, and which have the wrong date or size. We selected all our regular download areas, but left the private upload directories off the selection list.

Save the match filter as DATESIZE. We'll use it later in a command script with the CHANGE operation.

Archiving login failure messages

Our next example will show you how to keep a permanent record of the login failure messages which *Wildcat!* forces users to enter when they fail

to answer security verification prompts such as password, phone number and date of birth.

The screen below shows a match filter that will find messages containing the text "Login Failure" in the subject line. You'll remember message subject is a "contained within" search type, so we do not need to be any more specific than that.

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00p Ver R
                          Edit Message Match
Number from        : 0            To          : 65535
From               :
From user ID       : 0            To          : 2147483647
Fido from          : 0    :0    /0    .0     To: 65535:65535/65535.65535
To                 :
To user ID         : 0            To          : 2147483647
Fido to            : 0    :0    /0    .0     To: 65535:65535/65535.65535
Subject            : LOGIN FAILURE
Network            :
Date written from  : 01/01/00     To          :
Date read from     : 01/01/00     To          :
Days old           : 0            Condition   : Greater than or equal to
Private            : Both         Receiveable : Both
Echo               : Both         Sent        : Both
Received           : Both         Has replies : Both
Receipt            : Both         Deleted     : Both
Carboned           : Both         Tagged      : Both

 F2 Pick     AltL Load     AltC Clear     AltS Save     F10  Ok

[F1] Help [ESC] Exit                                    145848
```

Notice that login failure messages are always saved in the first conference a caller has security profile access to — in most cases this will be conference 0. When you have finished entering the match information, save this match filter as LOGFAIL. *wcPRO* will append the proper extension automatically — in this case .PMM for "Pro Message Match".

We will do two things with this match filter. First, we'll list the full text of the messages to a file for safekeeping. Then, we'll flag these messages for deletion by *wcPACK*.

The first operation is List. Select "Full Text" as the listing method, then enter LOGFAIL.TXT as the output file name. Press F10 to begin processing. The

next operation is to mark those messages for deletion, using the same match filter. Select "Delete" from the message command, enter a log file name if you like, and press F10 to begin processing.

The final step is to run *wcPACK* to purge the deleted records. By saving the match filter to a file, you can call it up again the next time you want to archive your login failure messages.

Making a Statistics bulletin

Our next task is to process our activity logs and create a statistics display file. Select Statistics from the main *wcPRO* menu, and define the areas of BBS activity you wish to report. This time, we'll leave the configuration details to you. Remember that if you elect to use History Files, you should also have *wcPRO* delete your activity logs when processing has finished. Also, if you want to track uploads and downloads, remember to select the file areas you want *wcPRO* to monitor — both uploads and downloads, or your statistics will show zero uploads and zero downloads.

When you have finished making your selections, save them as STATS. We'll use this match file in the command files section, to PROCESS your statistics.

Reward callers who post messages

Many system operators like to reward callers who participate actively in the message section with such perks as upgraded access—a security level giving extra time on-line and a more generous file upload/download ratio, extra credits in their account balance for file downloads, or extended subscription periods.

The selection of users who meet the message-posting criteria is simple, since *Wildcat!* stores the number of messages written in each caller's user record.

For this particular example, we are going to extend the subscriptions of callers who have posted more than 20 messages. The Match screen should look something like the following illustration. Press your PG DN key twice on the Match screen to edit the "Messages written" field.

```
wcPRO Copyright (c) 1991,94 by Mustang Software, Inc. Version 4.00p Ver R
                    Edit User Match                          Hot Buttons
Active conference   : 0            To: 32767                 Security
Messages written    : 20           To: 65535
Total uploads       : 0            To: 65535                 Secondary
Total downloads     : 0            To: 65535
Total calls         : 0            To: 65535                 AltC Clear
Time left           : 0            To: 65535
Daily downloads     : -2147483648  To: 2147483647            Sex
Daily download K    : -2147483648  To: 2147483647
Total upload K      : -2147483648  To: 2147483647            Editor
Total download K    : -2147483648  To: 2147483647
Minutes logged      : -2147483648  To: 2147483647            More Prompt
Account balance     : -2147483648  To: 2147483647
Netmail balance     : -2147483648  To: 2147483647            Help Level
                          Mail door
Max per conf        : 0            To: 65535                 Protocols
Max per packet      : 0            To: 65535
Max attach size     : 0            To: 65535                 File Display
                          Flags
Conference Sysop    : Both                                   Msg Display
 F2 Pick   F9 Buttons   AltL Load   AltS Save   F10 Done     Scrn Display
[F1] Help [ESC] Exit                                         | 108880
```

We'll save this match screen using [ALT] [S], as REWARD. We'll use this match screen later, in a CHANGE operation.

Creating the command file

Now that we've defined and saved our match filters, let us now create a command script. Go back to the main *wcPRO* menu, and select Command files. Press INS begin adding items to the agenda.

First, we'll create the ALLFILES.LST. For Operation, select LIST. The Database for this operation is FILES, and the Matching filter is ALLFILES. Use the F2 key to pop up a list of match filters to choose from.

The Log file in this operation should be named ALLFILES.LST. Note that there is room in this data entry field for a full drive and path designation, so precede the filename with the drive and path of one of your *Wildcat!* file areas, so your callers can download this file.

Now select the format for your listing — Single, Double or Full. Press F10 to add the script to your command file.

The command line will look something like this:

```
LIST FILES MATCHING ALLFILES FORMAT=DOUBLE LOGFILE=C:\NEWDL\ALLFILES.LST
```

Our next step is to update the date and size of files in the database to match the size and date on disk. Press your INS key again to add a new entry. Your command entry screen should look something like this:

```
CHANGE FILES MATCHING DATETIME LOGFILE=DATETIME.TXT
```

Press F10 to save this command script.

The next operation is to delete our inactive users. Following the previous two examples, use the command editor to create the following command script.

```
DELETE USERS MATCHING OLDUSERS LOGFILE=OLDUSERS
```

The next operation is to save our login failure messages to a file, and mark them for deletion. Use the LOGFAIL match filter to create the following command script. Remember to select the conferences from which to delete mail — use your F2 key to pop up a pick list of conferences.

```
LIST MESSAGES MATCHING LOGFAIL CONFERENCE=0 FORMAT=FULL LOGFILE=LOGFAIL
```

We'll then delete those same messages.

```
DELETE MESSAGES MATCHING LOGFAIL CONFERENCE=0 LOGFILE=DELFAIL
```

Next, let's process the activity logs and create our WCPRO.BBS file. The command script is very simple:

```
PROCESS STATISTICS USING STATS
```

Finally, we'll reward our most prolific message writers with an extra 30 days added to their subscriptions. The Edit Command screen will look something like this:

```
CHANGE USERS MATCHING REWARD LOGFILE=REWARD.TXT
```

Press F10 to save the command script, and return to the Edit Command File menu. The final step is to save the resulting script as EVENT, using the ALT S keys. The finished command script is a plain ASCII file looking something like this:

```
LIST FILES MATCHING ALLFILES FORMAT=DOUBLE LOGFILE=C:\NEWDL\ALLFILES.LST
CHANGE FILES MATCHING DATETIME LOGFILE=DATETIME.TXT
DELETE USERS MATCHING OLDUSERS LOGFILE=OLDUSERS.TXT
LIST MESSAGES MATCHING LOGFAIL CONFERENCE=0 FORMAT=FULL LOGFILE=LOGFAIL.DAT
DELETE MESSAGES MATCHING LOGFAIL CONFERENCE=0 LOGFILE=DELFAIL.TXT
PROCESS STATISTICS USING STATS
CHANGE USERS MATCHING REWARD LOGFILE=REWARD.TXT
```

Save this file as EVENT.PRO.

To execute this command script, we simply call *wcPRO* from a batch file with the command line:

```
WCPRO EVENT
```

It's now up to you to create an event in *Wildcat!* to execute once per week, executing the command line above from a batch file.

6 - wcFAX

An anthology is like all the plums and orange peel picked out of a cake.

Sir Walter Raleigh

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What is *wcFAX*?

wcFAX is a door for *Wildcat!* BBS that allows callers to view a list of documents, mark those documents that interest them, and have those documents Faxed to the phone number they specify. Users can mark and queue up to 50 Fax documents in the same way as marking and queuing up files for download. The cost of each document can be deducted from the user record subscription balance field.

Note that *wcFAX* does not receive Faxes from users, nor does it let a user download the documents rather than Faxing them.

The program consists of three components: the configuration utility MAKEFAX.EXE, the door program WCFAX.EXE from which callers select the documents they want to receive, and FAXSERVE.EXE which actually sends the documents.

wcFAX requires a CLASS 1 or CLASS 2 compatible Fax modem. Your Fax modem must be connected to a regular serial port — because of the timing critical nature of Fax transmissions, FAXSERVE cannot support DigiBoard or other non-DOS serial ports.

The Fax server will retry up to 3 times to get the Fax through (up to five times if the line is busy), but aborts immediately if a VOICE answer is received. *wcFAX* will send an E-Mail message to the caller requesting the Fax, from "*Wildcat!* MAIL ROOM", if for any reason the Fax did not go through. The message indicates the reason for the failed transmission. The caller also receives a message from "*Wildcat!* MAIL ROOM" if the fax was sent successfully.

Creating Fax documents to send

wcFAX allows text and graphic files to be sent as faxes. Text files are ordinary ASCII files created by a text editor, or by a word processor which is capable of saving files in ASCII or DOS TEXT mode. Graphic files must be .PCX (Zsoft PC Paintbrush format), in black and white or color. Color PCX files are converted to dithered black and white images automatically before being sent as faxes.

If you want to send graphical images as Faxes, you will need a way to capture the image to a disk file in the correct format. Most PC scanners can save images as PCX files, and the majority of drawing and painting programs can convert other graphic image files to PCX format. Some examples are PC Paintbrush and Publishers Paintbrush from Zsoft, Corel Draw, Aldus Photostyler and Adobe Photoshop.

If you are creating your own PCX files, save them as black and white or grayscale images, as close as possible to the actual size you will be sending. Fax resolution is fairly low — normally 204 x 196 pixels per inch in fine mode, 204 x 98 pixels per inch in normal mode. Overly complex images may lose resolution during the Fax process, and may take considerably longer to transmit.

I saved a PCX file as a one-page letter-sized image, but when I Fax it, it sends two pages instead of one.

This is a fairly common problem. The actual image size must be slightly smaller than the full size of the page. Try loading the .PCX file into your paint program and scale it down to 90 percent of the original image size.

Cover sheets

The cover sheet is a text file sent as the first page of a multi-page Fax, identifying the sender's name, the addressee's name, the date and time of the Fax, and the total number of pages to expect.

This information can be filled in automatically by the program, if you prepare the coversheet text file using the following selection of system macros. Note that while they are similar in format to the system macros used

by *Wildcat!* BBS, the *wcFAX* @ macros should not be confused or interchanged with *Wildcat!* @ macros.

@TO@	The name of the person requesting the Fax
@TOSYSTEM@	The company or system name of the person requesting the Fax
@TOPHONE@	The Fax phone number of the person requesting the Fax
@FROM@	Your name (from *MAKEWILD* "Sysop name")
@FROMSYSTEM@	Your BBS name (from *MAKEWILD*)
@FROMPHONE@	Your BBS phone number (from *MAKEWILD*)
@DATE@	Date the Fax was sent
@TIME@	Time the Fax was sent
@PAGES@	Total number of pages in Fax document(s).

Embedding graphics in a text file

Text files and pictures (in .PCX format) can be imported into the cover sheet using a redirection macro. The format is

```
<<C:\WILDCAT\TEXTFILE\FILENAME.TXT
```

or

```
<<C:\WILDCAT\PICTURES\FILENAME.PCX
```

wcFAX will send black and white PCX files without conversion, and will automatically convert color PCX files to greyscale. 256 color PCX files using 8 bitplanes per pixel can be sent using the following parameters:

`<<FILENAME.PCX`	Convert to black & white
`<<FILENAME.PCX /2`	Magnify 2x with 5 levels of greyscale conversion
`<<FILENAME.PCX /3`	Magnify 3x with 10 levels of greyscale conversion.

These import file macros must begin in column 1 of the text, and there should be no other text on the line.

An example cover sheet might look like this:

```
<<LOGO.PCX

Date: @DATE@  @TIME@
From: @FROMSYSTEM@
      @FROM@
      @FROMPHONE@
  To: @TOSYSTEM@
      @TO@   @TOPHONE@
Subj: @SUBJECT@
Total @PAGES@ Page(s) (including this cover letter)
```

Configuration

Run MAKEFAX.EXE in your WILDCAT directory to create the initial configuration file, and from the main menu, select **Configuration**. A pop-up box like the one below will appear on your screen:

```
MakeFAX Copyright (c) 1993,94 Mustang Software, Inc.  Version 4.00

                    Configuration
Path to your WcFAX data files        : C:\WILDCAT\WCFAX
Path to your original documents      : C:\WILDCAT\WCFAX\ORIG
Path to pending documents            : C:\WILDCAT\WCFAX\PEND
Path/Filename of the coversheet      : C:\WILDCAT\WCFAX\FAXCOVER.TXT
Select conference for FAX messages   : 0
International mode                   : N
                         Faxserve
Display status during send           : Y
Server maximum baud rate             : 9600
Server last attempt baud rate        : 4800
Dialing prefix                       :
FAX modem dial command               : ATDT

 F2  Pick        F9 Phone Numbers        F10 Done

13:03:57 | [ESC] Exit
```

Fax Door setup

The first part of the Configuration menu concerns setup for the *wcFAX* door program.

Path to your *wcFAX* data files

Default: C:\WILDCAT\WCFAX

This is the directory where *wcFAX* and FAXSERVE expect to find their configuration files.

Path to your original documents:

Default: C:\WILDCAT\WCFAX\ORIG

This is the location of the document files to send.

Path to pending documents

Default: C:\WILDCAT\WCFAX\PEND

This is the work area used by *wcFAX* to rasterize and prepare document files for Faxing.

Path/filename of the coversheet

Default: C:\WILDCAT\WCFAX\FAXCOVER.TXT

Each Fax is sent with a cover sheet, and this file must be present for FAXSERVE to work properly.

Select conference for Fax messages

Default: 0

wcFAX will send a message to the user from "*Wildcat!* MAIL ROOM" reporting whether or not the attempt to send the Fax was successful. Press m to pop up a selection list of *Wildcat!* conferences, and choose the in which you want these messages to appear. Remember to select a conference accessible to all security profiles if you want callers to be able to see the messages!

International mode

Default: No

If International mode is set to Y, *wcFAX* allows users to enter free-form phone numbers, and the $ dollar sign character is stripped from the cost field for each document. If International mode is set to N, US-style phone numbers are used, and the cost is shown with a $ dollar sign.

Faxserve setup

Display status during send

Default: Yes

While FAXSERVE is running, it displays status information such as the number it is dialing, fax negotiation messages, and call progress. On some machines, this continual updating may cause timing problems and interfere with Fax transmissions. If you have problems sending faxes, try changing this option to No.

Server maximum baud rate

This is the maximum baud rate supported by your Fax modem when it is in Fax mode. Note that this is not necessarily the same as its maximum speed for data transmissions.

Use the spacebar to toggle the various selections, or pop up a pick list with your F2 key. Supported baud rates are 2400, 4800, 7200 and 9600. Check the documentation for your Fax modem to find the maximum baud rate to use.

Server last attempt baud rate

Default: 4800

On calls where FAXSERVE is unable to send the fax at the highest baud rate on the first two calls, it will fall back and retry once more at a lower baud rate. This field allows you to set the lowest baud rate FAXSERVE is allowed to try for its last dialing attempt.

Dialing prefix

If your PBX requires a number or code to make an outgoing call, enter that information here. Note that some phone systems have a different prefix for local and long distance calls — in this case, enter the prefix to make a long distance call, since an outgoing long distance line can be generally used to dial local calls as well, without incurring long distance charges.

This number is never shown to the user, and thus can contain your long distance calling card number or other long distance access codes, if needed. The maximum length is 20 characters.

Fax modem dial command

Default: ATDT

This is the dial command, and is usually ATDT for tone dialing, or ATDP for pulse dialing. Additional dial string parameters can be placed in this selection if necessary.

Phone numbers

Press F9 to pop up the phone number configurations for FAXSERVE.

Number Types

FAXSERVE recognizes five types of phone numbers: **Local, Metro, Regional, Long Distance** and **Overseas.** Overseas numbers have more than 3 "-" (hyphen) characters in them, and are prefixed with the overseas dialing code specified for Overseas numbers in the configuration section of *MAKEFAX*.

Long Distance numbers are numbers that are prefixed with the long distance dialing code specified for Long Distance calls, and which have a different area code than the BBS phone number.

Regional numbers are numbers within your own area code that are toll calls, but may or may not require the use of a regional dialing prefix before the phone number.

Metro numbers are numbers within your area code that may or may not require the use of a dialing prefix before the number, but are still considered TOLL calls.

Local numbers are those numbers within your area code, and usually do not require a dialing prefix before the number to be dialed. These are usually free, unless your local phone company charges for local calls on your data line.

In the popup windows for each phone number type, you can configure the following options:

Prefix

This is the dialing prefix to reach a phone number in this group. For instance, "1" for direct dialed long distance calls within the US, or "011" for international calls from the US.

Suffix

Some phone systems require you to enter data after a phone number to supply additional information concerning the source and purpose of the call. If your phone system needs this information, enter it here, otherwise leave this field blank.

On overseas calls, you can enter a "#" after the number to indicate to the phone company's equipment that the complete number has been dialed and it should now begin placing the call.

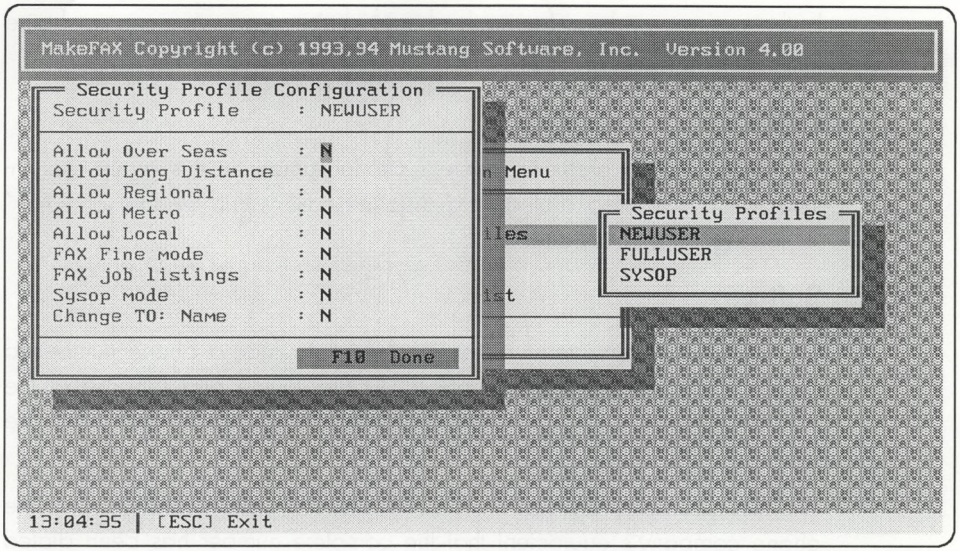
Start time
End time
Days to fax

These are the days and times during which FAXSERVE is allowed to send Faxes to phone numbers in this group.

Press F10 to save your changes and return to the main menu and configure the remaining setup options, or ESC to abandon your changes.

Security Profiles

The Security Profiles pop-up allows you to define access to various Fax functions for each *Wildcat!* Security Profile. The following illustration shows the Security Profile Configuration screen.



Allow Over Seas
Allow Long Distance
Allow Regional
Allow Metro
Allow Local

These five selections determine what kinds of toll charges you are willing to incur for Fax back services. Each security profile is set individually.

Fax Fine mode

This option refers to the default resolution of the document to be sent. Regular mode is substantially faster for many documents than Fine mode, but documents containing graphics may lose detail.

Remember to press F10 to save your changes at this point.

Fax job listings

If this option is turned on, callers at this security profile can view the list of pending Fax documents they have requested during previous sessions. Callers may also delete documents from the list.

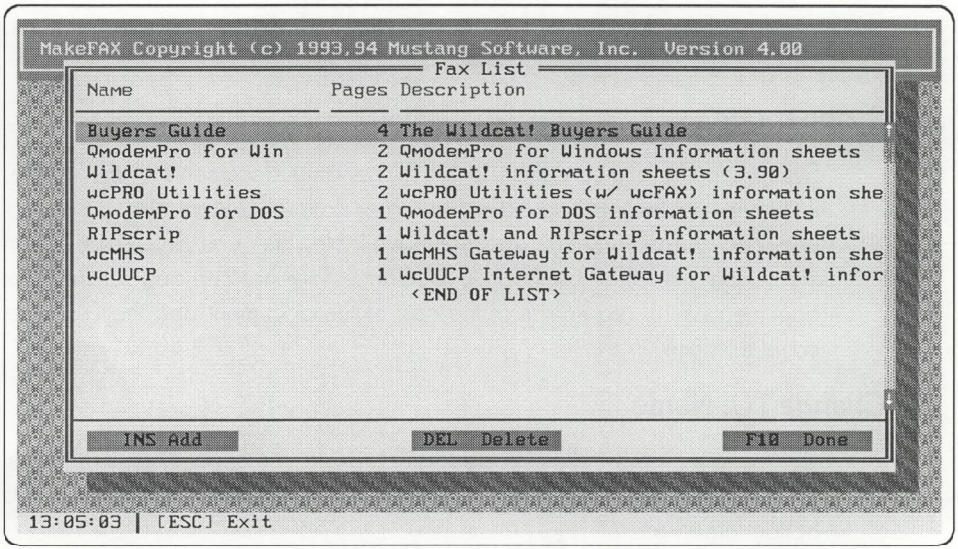
Sysop mode

Sysop security allows callers to list all pending documents in the queue, including documents queued up by other callers. Callers with Sysop access can choose any Fax document available, they can delete items from the queue, and their user account balances are not charged for any Fax documents sent, regardless of the cost of the document and their user account balance.

Change TO: Name

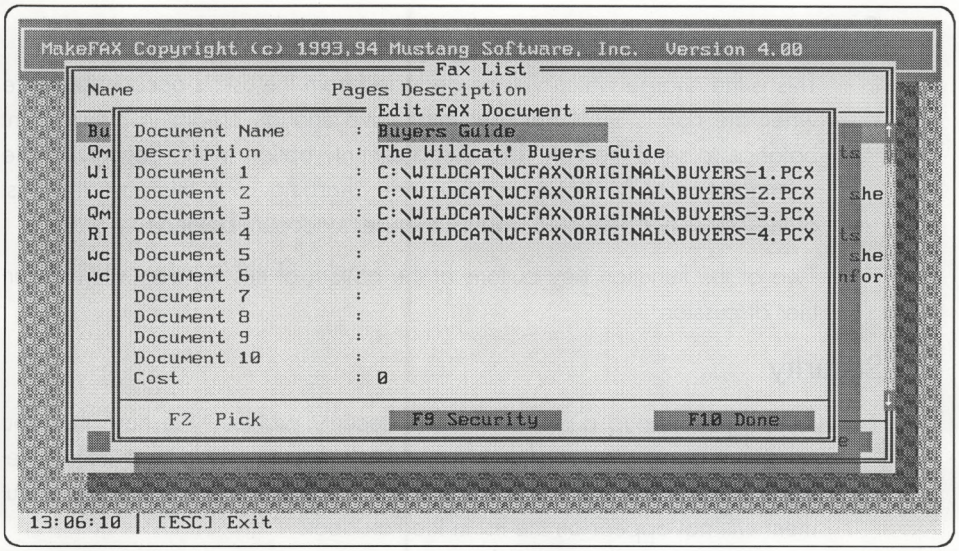
This option allows callers to address a fax to someone other than themselves. If you don't want callers sending faxes to other people, leave this option turned off.

Fax List



The **Fax List** menu allows you to create, edit and maintain the list of Fax documents to send.

To add an entry, press INS. To edit an existing entry, press ENTER.



Document Name

This is the name of the document as it will appear on the list in the Fax door.

Description

Use this line to enter a brief description of the document.

Document 1 ... 10

Multiple files can be assembled into a single Fax document. This is useful when, for instance, the Fax consists of scanned images of a multi-page product brochure with illustrations.

Each file counts as a page, and a Fax document may contain up to ten pages. Remember that you can import as many .PCX files into a single text document as you like.

Cost

This is the charge which will be deducted from the user's account balance when the Fax is sent. The user must have enough credits in his account balance to send the Fax. The Sysop security option in the Security Profile configuration in *MAKEFAX* will override charging — in this case the cost of the Fax is not deducted against the user's account balance.

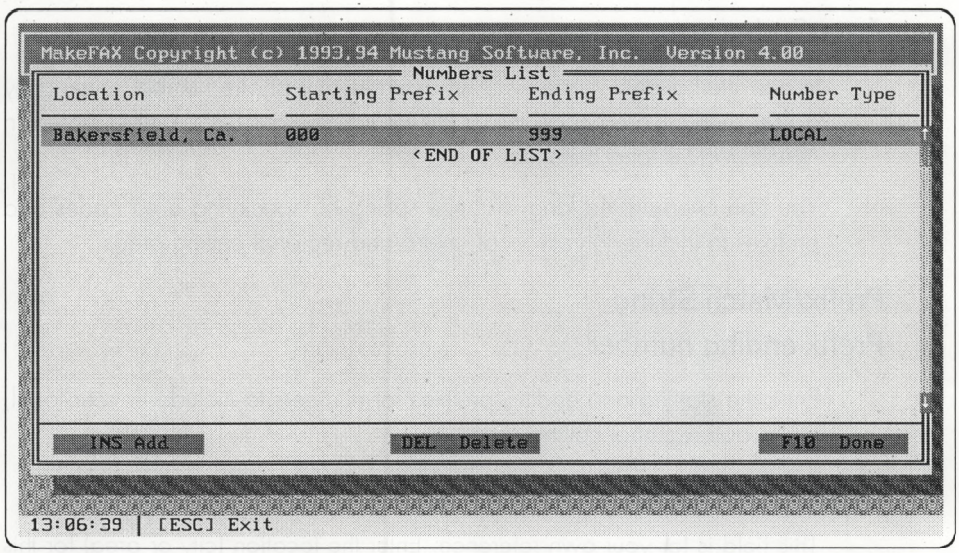
Two of the Function Key buttons at the bottom of this window warrant further discussion.

Security

Press F9 to popup a selection list of security profiles. It is here that you configure access to specific documents by security profile. If a caller's security profile does not have access to a particular document, that document will not appear on the list in the Fax door.

Just as in *MAKEWILD* and other *Wildcat!* utilities, you may toggle the selection dot on and off with the spacebar, or a click of the left mouse button. Press ALT S to select all profiles, or ALT C to clear all profiles. Remember to press F10 to save your selections.

Numbers list



In order for *wcFAX* to determine which prefixes in your area code are regional, metro and local calls, and which numbers are long distance or overseas, you need to enter these prefixes and numbers in the **Numbers List**, otherwise all numbers are considered Long Distance to *wcFAX*.

In most foreign countries, these types of descriptors are unnecessary. You can still allocate numbers into 4 categories to grant or disallow access to certain numbers based on the caller's security level.

With International Mode turned ON, *wcFAX* reads this list and compares the entries against the number the user has entered (up to 20 characters). If it finds a match, it then references the number with the current descriptor, and checks to see if the caller has security to receive the FAX. If *wcFAX* cannot find the number under any of the descriptors in the Numbers List, the number is considered long distance.

Dialing access for these categories of numbers is controlled by security profile and time of day.

Area Code

In non-international mode, *wcFAX* assumes any phone number entered by a user with an area code that is different from your BBS number stored in *MAKEWILD* is long distance.

You can override the long distance setting by specifying area codes and prefixes to include in your local, metro and regional calling areas.

Prefix/Match String
Prefix ending number

Enter the starting and ending prefixes for numbers to include in your local, metro and regional calling areas.

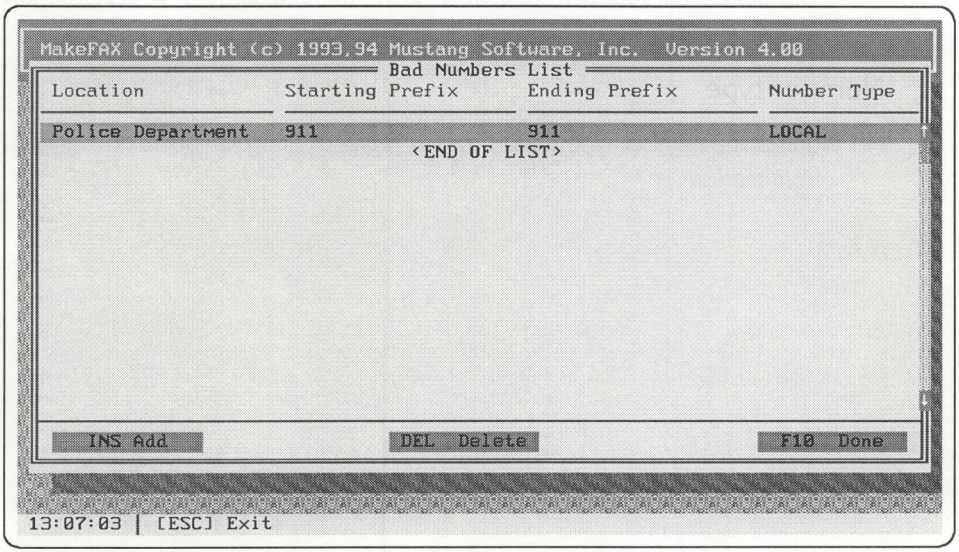
Location of Prefix

This field is for your own reference. Enter the location (city or area) for this range of prefixes.

Number type

Select the number type (local, metro or regional) from the list.

Bad Numbers list



This is a list of numbers FAXSERVE should never call. You should include your own BBS number on this list, along with numbers for your local emergency, police, fire and ambulance services. You may also want to add other numbers such as radio station contest lines and your local college or university mainframe computer phone numbers to prevent prank callers from tying up your fax service with nuisance calls.

Prefix/Match String
Prefix Ending Number

You can enter the entire bad number in both fields, or, to lock out a range of numbers, the starting and ending range. Any number falling within this range will not be dialed.

Location of Prefix

This field is for your own reference. Enter the location (city or area) for this range of prefixes.

Number type

Select the number type (local, metro, regional, long distance or overseas) from the list.

Running The *wcFAX* Door And FAXSERVE Program

The next step is to set up the *wcFAX* door and FAXSERVE programs. Your first step is to run *MAKEWILD* to define *wcFAX* as a menu hook or door, then run *MAKEMENU* to add the selection to one of your BBS menus. Refer to your *Wildcat!* Sysop Guide for information on how to define menus and menu commands.

Editing the *wcFAX* Batch File

The batch file to execute *wcFAX* is extremely simple, particularly if you use Swap rather than Terminate to run Doors and DOS hooks. Since the *wcFAX* Door gets most of its configuration information from your *Wildcat!* settings, there is no need to specify any command line arguments.

We will use FAXDOOR.BAT as our example:

```
@ECHO NOW EXECUTING FAXDOOR.BAT
C:\WILDCAT\WCFAX.EXE
```

Be sure to test *wcFAX* in local mode by logging in and going through the menus, before putting it on-line for your callers. If you terminate for doors rather than swapping, remember to change back to the node directory before restarting *Wildcat!*

Operating the *wcFAX* door

Door operation is very straightforward. Your callers are presented with a list of documents which they can mark in much the same way as they can list and mark files on the *Wildcat!* file menu. On-line help is available from each menu.

Here is a typical series of screens showing a caller selecting documents, confirming selection, and entering their Fax phone number:

```
Document list -- Total number of documents: 9

*  1   Buyers Guide          Sent:    13 | The Wildcat! Buyers Guide
       Pgs:    4 Cost: $  0.00 04/24/94 |

[  2]  QmodemPro for Win     Sent:    72 | QmodemPro for Windows Information shee
       Pgs:    2 Cost: $  0.00 04/24/94 | ts

[  3]  Wildcat!              Sent:     6 | Wildcat! information sheets (3.91)
       Pgs:    2 Cost: $  0.00 06/02/94 |

[  4]  wcPRO Utilities       Sent:    41 | wcPRO Utilities (w/ wcFAX) information
       Pgs:    2 Cost: $  0.00 05/15/94 |  sheets.

[  5]  QmodemPro for DOS     Sent:    38 | QmodemPro for DOS information sheets
       Pgs:    1 Cost: $  0.00 05/02/94 |

[  6]  RIPscrip              Sent:    32 | Wildcat! and RIPscrip information shee
       Pgs:    1 Cost: $  0.00 05/15/94 | ts

-Pause- [C]ont, [H]elp, [M]ark, [V]iew pending docs, [S]top?


 GWEN BARNES          176 899  Local  STAFF        |Key|Prn|Pag|Bel|Cap|m160k,s10k
```

In the preceding screen, the caller has marked the documents indicated by the "*", and then presses "C" to continue. The following screen shows the list of documents selected, and the Fax phone number selected by the caller.

```
You have MARKED the following documents:
                                          Pages          Cost
                                      ------------  ------------
[ 1]    Buyers Guide                             4  $        0.00
                                      ------------  ------------
                              Totals:          4  $        0.00

[C]ontinue - Send all marked documents.
[A]dd      - Add document to list.
[E]dit     - Edit marked documents.
[S]top     - Return to FAX document list.

Enter the name to send to? Gwen Barnes
Enter your FAX phone number.
FAX number or [Q]uit: 805-873-2599

 GWEN BARNES        176 900  Local  STAFF      |Key|Prn|Pag|Bel|Cap|M160k,s8k
```

Sending Faxes with FAXSERVE

The program which does the actual work of sending the Faxes is called FAXSERVE.EXE. **Note that FAXSERVE must be run from a regular serial port only — it does not support DigiBoard cards.**

This program uses the information entered by users in the Fax door, to send the requested documents to the Fax number specified by the user. There are three ways to use FAXSERVE:

As a timed Event from a *Wildcat!* node

This option has the advantage of allowing you to schedule your outbound Fax calls during cheap overnight long distance rates. It has the drawback of not being immediate from the caller's point of view.

Log onto the node you wish to use for this sendFax event. Go to the Sysop Menu, then select **Events**. **Add** an event, and specify the times and days you want it to run. Select **Run a Batch File** as the type of event, and type the name and path for your Fax batch file.

Create a batch file like this, and call it FAXOUT.BAT (actually any name will do):

```
@ECHO NOW EXECUTING FAXOUT.BAT
C:
CD \WILDCAT
FAXSERVE /A
```

Note the command line switch "/A". This tells the FAXSERVE door to send "ALL" waiting fax requests, and exit when it has finished its task.

Refer to your *Wildcat!* Sysop Guide for more information on creating and editing system events.

As a POSTCALL.RUN

The second option is to run *wcFAX* after each call, using the POSTCALL event in WILDCAT. This is mainly suitable for single-node systems not running under DESQview, or a node of a multiline system running on a dedicated PC.

Create a file named POSTCALL.RUN in your node directory (refer your *Wildcat!* Sysop Guide for more information on POSTCALL event processing). The batch file should look like this:

```
@ECHO NOW EXECUTING FAXOUT.BAT
C:
CD \WILDCAT
FAXSERVE /A
```

Once again, note the command line switch "/A". This tells the FAXSERVE door to send all pending documents, then exit.

As a full-time Fax server

The third option is to run FAXSERVE as a full-time Fax server. This is useful if you have a telephone line and Fax modem you can dedicate to the task. This has the advantage of not tying up one or more of your BBS lines when sending Faxes, and allows near-instant Faxback service.

In "full-time" mode, FAXSERVE polls the disk periodically looking for Faxes to send. In this case, we run it without the "/A" command line switch, because we don't want it to exit after sending the first Fax it finds.

There is, however, another command line switch that might be useful. This instructs *FAXSERVE* to quit at a specified time. This is a good option for a "part time" node on your BBS, or a node which runs a mailer or other communication application.

To run the FAXSERVE program from now until 11:30 p.m., the command line would look like this:

```
FAXSERVE /Q23:30
```

Note that this is Military or 24-hour time.

There are two other command line switches: "/M" to force monochrome mode, and "/C" to force color mode. Use these only if the program is unable to determine your video mode and displays incorrectly on screen.

The FAXSERVE program provides a detailed status display of faxes sent, faxes queued, and so on. Below is a picture of the FAXSERVE screen as it appears when the program starts.

After about two minutes, the screen will go blank to avoid burn-in, and a pattern of box characters will move around the screen, indicating that the FAXSERVE program is idle, waiting for a Fax to send.

You can exit the FAXSERVE program at any time by pressing [ESC].

I have trouble running FAXSERVE under DESQview.

Fax software is timing-critical, and may not function reliably under a multitasking environment such as DESQview.

How come FAXSERVE doesn't run on my DigiBoard?

This version of FAXSERVE is designed to support regular serial ports only. This has mainly to do with timing, as described above.

My caller only got the first page of a multi-page document.

Again, this is a question of timing. Consider upgrading to a 16550 UART, or lower the maximum Fax baud rate in *MAKEFAX*. A slow computer may have trouble keeping up, even with these recommended fixes.

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